

X-537-65-217

NASA TMX 56876

0

# SPACE OPERATIONS CONTROL CENTER SATELLITE SITUATION REPORT

GPO PRICE \$ \_\_\_\_\_  
CFSTI PRICE(S) \$ \_\_\_\_\_  
Hard copy (HC) \$ 3.00  
Microfiche (MF) .75

# 653 July 65

VOL. 6, NO. 1

REGISTRATION NUMBER N66-19039  
(PAGES) 30  
(NASA CB OR TMX OR AD NUMBER) TM-X 57540  
(THRU) 1  
(CODE) 30  
(CATEGORY) \_\_\_\_\_

FACILITY FORM 602

JANUARY 15, 1966



GODDARD SPACE FLIGHT CENTER

GREENBELT, MD.

JAN 25 1966

TISIA E

SPACE OPERATIONS CONTROL CENTER  
GODDARD SPACE FLIGHT CENTER  
NATIONAL AERONAUTICS AND SPACE ADMINISTRATION

VOLUME 6, NO. 1

JANUARY 15, 1966

SATELLITE SITUATION REPORT

THE FOLLOWING REPORT REFLECTS DATA COMPUTED AND COMPILED  
BY THE GODDARD SPACE FLIGHT CENTER, NORAD, AND THE SMITHSONIAN  
ASTROPHYSICAL OBSERVATORY AS OF 1200Z ON JANUARY 15, 1966

OBJECT	CODE NAME	CATALOGUE NUMBER	OBJECTS IN ORBIT				PERIGEE Km.	APOGEE Km.	INCLI- NATION	PERIOD MINUTES	TRANSMITTING FREQ. (MC/S)
			SOURCE	LAUNCH							
1958 LAUNCHES											
ALPHA 1	EXPLORER 1	004	US	1 FEB	103.9	33.18	341	1540			
BETA 1	ROCKET BODY	016	US	17 MAR	138.4	34.26	641	4326			
BETA 2	VANGUARD 1	005	US	17 MAR	134.0	34.24	655	3934			
BETA 3		1576	US	17 MAR	132.7	34.20	651	3826			
1959 LAUNCHES											
ALPHA 1	VANGUARD 2	011	US	17 FEB	125.4	32.86	547	3283			
ALPHA 2	ROCKET BODY	012	US	17 FEB	129.7	32.91	551	3661			
ETA 1	VANGUARD 3	020	US	18 SEP	129.8	33.33	511	3715			
MU 1	LUNIK 1	112	USSR	2 JAN	HELIOCENTRIC ORBIT						
NU 1	PIONEER 4	113	US	3 MAR	HELIOCENTRIC ORBIT						
IOTA 1	EXPLORER 7	022	US	13 OCT	101.1	50.33	551	1074			
IOTA 2	ROCKET BODY	023	US	13 OCT	100.9	50.34	552	1048			
1960 LAUNCHES											
ALPHA 1	PIONEER 5	027	US	11 MAR	HELIOCENTRIC ORBIT						
BETA 1	ROCKET BODY	028	US	1 APR	99.1	48.39	690	740			
BETA 2	TIROS 1	029	US	1 APR	99.1	48.39	697	748			
BETA 3	NONE	101	US	1 APR	97.9	48.49	617	695			
BETA 4	NONE	115	US	1 APR	99.9	48.15	698	806			
GAMMA 2	TRANSIT 1B	031	US	13 APR	93.5	51.23	343	548			
GAMMA 4	NONE	099	US	13 APR	96.7	51.26	479	722			
ZETA 1	MIDAS 2	043	US	24 MAY	94.3	33.04	469	494			
ETA 1	TRANSIT 2A	045	US	22 JUN	101.6	66.71	609	1063			
ETA 2	GREB	046	US	22 JUN	101.6	66.71	610	1059			
ETA 3	ROCKET BODY	047	US	22 JUN	101.4	66.71	609	1041			
ETA 4		840	US	22 JUN	101.5	66.69	609	1055			
ETA 5		841	US	22 JUN	101.5	66.69	609	1051			

# OBJECTS IN ORBIT

OBJECT	CODE NAME	CATALOGUE NUMBER	SOURCE	LAUNCH	PERIOD MINUTES	INCL - NATION	APOGEE Km.	PERIGEE Km.	TRANSMITTING FREQ. (MC/S)
1960 LAUNCHES (CONT'D)									
IOTA 1	ECHO 1	049	US	12 AUG	113.3	47.25	1671	1078	
IOTA 2	ROCKET BODY	050	US	12 AUG	118.1	47.23	1684	1503	
IOTA 3	METAL OBJECT	051	US	12 AUG	118.2	47.24	1685	1518	
IOTA 4	METAL OBJECT	052	US	12 AUG	CURRENT ELEMENTS NOT MAINTAINED				
IOTA 5	METAL OBJECT	053	US	12 AUG	118.4	47.34	1682	1538	
NU 1	COURIER 1B	058	US	4 OCT	107.0	28.31	1214	961	
NU 2	ROCKET BODY	059	US	4 OCT	106.6	28.24	1206	925	
XI 1	EXPLORER 8	060	US	3 NOV	112.2	50.02	2236	423	
XI 2	ROCKET BODY	062	US	3 NOV	111.7	49.98	2193	420	
XI 3	NONE	069	US	3 NOV	108.5	49.38	1919	398	
XI 4	NONE	105	US	3 NOV	110.1	50.48	2024	434	
PI 1	TIROS 2	063	US	23 NOV	98.2	48.53	729	618	
PI 2	ROCKET BODY	064	US	23 NOV	98.1	48.50	718	615	
PI 3	NONE	074	US	23 NOV	98.1	48.52	721	618	
PI 4	NONE	075	US	23 NOV	98.3	48.52	732	620	
1961 LAUNCHES									
ALPHA 1	SAMOS 2	070	US	31 JAN	94.7	97.37	541	467	
ALPHA 2	METAL OBJECT	079	US	31 JAN	94.6	97.38	534	465	
GAMMA 1	VENUS PROBE	080	USSR	12 FEB	HELIOCENTRIC ORBIT				
DELTA 2	ROCKET BODY	082	US	16 FEB	118.5	38.84	2594	633	
DELTA 3	NONE	085	US	16 FEB	CURRENT ELEMENTS NOT MAINTAINED				
KAPPA 1	EXPLORER 10	098	US	25 MAR	POSITION UNCERTAIN				
NU 1	EXPLORER 11	107	US	27 APR	107.9	28.78	1774	484	
OMICRON 1	TRANSIT 4A	116	US	29 JUN	103.8	66.84	1003	877	
OMICRON 2	INJUN-SR-3	117	US	29 JUN	103.8	66.84	1004	877	
OMICRON 3-208**	METAL OBJECTS		US	29 JUN					
RHO 1	TIROS 3	162	US	12 JUL	100.4	47.91	814	740	
									\$54\$324\$150\$400

OBJECTS IN ORBIT

<u>OBJECT</u>	<u>CODE NAME</u>	<u>CATALOGUE NUMBER</u>	<u>SOURCE</u>	<u>LAUNCH</u>	<u>PERIOD MINUTES</u>	<u>INCLI- NATION</u>	<u>APOGEE Km.</u>	<u>PERIGEE Km.</u>	<u>TRANSMITTING FREQ. (MC/S)</u>

1961 LAUNCHES (CONT'D)

RHO 2	ROCKET BODY	165	US	12 JUL	100.3	47.90	805	742	
RHO 3	METAL OBJECT	166	US	12 JUL	98.8	47.93	792	613	
RHO 4	METAL OBJECT	167	US	12 JUL	102.0	47.86	931	775	
SIGMA 1	MIDAS 3	163	US	12 JUL	161.5	91.25	3542	3350	
SIGMA 3	METAL OBJECT	188	US	12 JUL	161.1	91.21	3544	3320	
SIGMA 4	METAL OBJECT	196	US	12 JUL	161.9	91.20	3569	3355	
UPSILON 1	EXPLORER 12	170	US	16 AUG	CURRENT ELEMENTS NOT MAINTAINED				
A DELTA 1	MIDAS 4	192	US	21 OCT	166.0	95.87	3752	3501	
A DELTA 3	METAL OBJECT	194	US	21 OCT	165.6	95.85	3740	3482	
A DELTA 4	METAL OBJECT	195	US	21 OCT	166.4	95.86	3802	3485	
A ETA 1	TRANSIT 4B	202	US	15 NOV	105.8	32.42	1113	945	
A ETA 2	TRAAC	205	US	15 NOV	105.8	32.42	1113	948	
A ETA 3	ROCKET BODY	204	US	15 NOV	105.6	32.43	1097	948	

1962 LAUNCHES

ALPHA 1	RANGER 3	221	US	26 JAN	HELIOCENTRIC ORBIT				
ALPHA 2	ROCKET BODY	222	US	26 JAN	HELIOCENTRIC ORBIT				
BETA 1	TIROS 4	226	US	8 FEB	100.4	48.31	839	712	
BETA 2	ROCKET BODY	227	US	8 FEB	101.4	48.13	941	703	
BETA 3	METAL OBJECT	228	US	8 FEB	99.5	48.42	760	704	
BETA 4	METAL OBJECT	229	US	8 FEB	100.3	48.30	837	706	
ZETA 1	ORB.SOL.OBS. 1	255	US	7 MAR	96.0	32.83	587	546	
ZETA 2	ROCKET BODY	257	US	7 MAR	96.0	32.83	581	549	
KAPPA 1		271	US	9 APR	153.0	86.66	3410	2786	
KAPPA 3		273	US	9 APR	152.6	86.65	3367	2799	
KAPPA 4		274	US	9 APR	153.3	86.65	3423	2803	
MU 2	ROCKET BODY	282	US	23 APR	HELIOCENTRIC ORBIT				
OMICRON 1	ARIEL	285	US/UK	26 APR	100.4	53.92	1162	389	136.405
OMICRON 2	ROCKET BODY	288	US	26 APR	100.2	53.90	1145	390	

OBJECTS IN ORBIT

OBJECT	CODE NAME	CATALOGUE NUMBER	SOURCE	LAUNCH	PERIOD MINUTES	INCL I- NATION	APOGEE Km.	PERIGEE Km.	TRANSMITTING FREQ. (MC/S)	
1962 LAUNCHES (CONT'D)										
A ALPHA 1	TIROS 5	309	US	19 JUN	100.5	58.13	967	595		
A ALPHA 2	ROCKET BODY	311	US	19 JUN	100.4	58.14	958	594		
A ALPHA 3	METAL OBJECT	312	US	19 JUN	101.7	58.19	1077	605		
A ALPHA 4	METAL OBJECT	313	US	19 JUN	99.1	58.00	858	572		
A EPSILON 1	TELSTAR 1	340	US	10 JUL	157.8	44.83	5647	941		
A EPSILON 2	ROCKET BODY	341	US	10 JUL	157.6	44.81	5630	944		
A OMICRON 1		369	US	23 AUG	99.5	98.70	857	618		
A OMICRON 2		370	US	23 AUG	98.2	98.60	744	605		
A OMICRON 3		378	US	23 AUG	100.8	98.76	972	621		
A OMICRON 4		388	US	23 AUG	99.5	98.69	856	617		
A RHO 1	MARINER 2	374	US	27 AUG	HELIOCENTRIC ORBIT					
A RHO 2	ROCKET BODY	375	US	27 AUG	HELIOCENTRIC ORBIT					
A PSI 1	TIROS 6	397	US	18 SEP	98.7	58.30	706	690		
A PSI 2	ROCKET BODY	398	US	18 SEP	98.6	58.31	702	687		
A PSI 3	METAL OBJECT	399	US	18 SEP	99.4	58.45	775	683		
A PSI 4	METAL OBJECT	400	US	18 SEP	98.0	58.21	693	635		
B ALPHA 1	ALOUETTE	424	CANADA	29 SEP	105.5	80.49	1037	998	\$136.591\$136.078	
B ALPHA 2	ROCKET BODY	426	US	29 SEP	105.4	80.47	1031	999		
B ALPHA 3	METAL OBJECT	510	US	29 SEP	105.4	80.51	1024	1001		
B ALPHA 4	METAL OBJECT	511	US	29 SEP	105.5	80.44	1039	996		
B GAMMA 1	EXPLORER 14	432	US	2 OCT	CURRENT ELEMENTS NOT MAINTAINED					
B GAMMA 2#	ROCKET BODY	NNA	US	2 OCT	CURRENT ELEMENTS NOT MAINTAINED					
B ETA 1	RANGER 5	439	US	18 OCT	HELIOCENTRIC ORBIT					
B ETA 2	ROCKET BODY	440	US	18 OCT	HELIOCENTRIC ORBIT					
B KAPPA 1		444	US	26 OCT	121.8	71.36	3321	199		
B LAMBDA 1	EXPLORER 15	445	US	27 OCT	CURRENT ELEMENTS NOT MAINTAINED					
B LAMBDA 2#	ROCKET BODY	NNA	US	27 OCT	INSUFFICIENT OBSERVATIONS					
B MU 1	ANNA 1B	446	US	31 OCT	107.9	50.12	1183	1076	\$162\$324	

\$136.591\$136.078

OBJECTS IN ORBIT										
OBJECT	CODE NAME	CATALOGUE NUMBER	SOURCE	LAUNCH	PERIOD MINUTES	INCLI- NATION	APOGEE Km.	PERIGEE Km.	TRANSMITTING FREQ. (MC/S)	
1962 LAUNCHES (CONT'D)										
B MU 2	ROCKET BODY	447	US	31 OCT	107.6	50.21	1161	1072	\$136.140;136.621	
B NU 3		450	USSR	1 NOV	HELIOCENTRIC ORBIT					
B TAU 1		502	US	13 DEC	103.4	70.32	1612	225		
B TAU 2	INJUN 3	504	US	13 DEC	109.6	70.34	2179	234		
B TAU 4		508	US	13 DEC	89.9	70.24	325	190		
B TAU 5		513	US	13 DEC	103.2	70.29	1592	226		
B TAU 6		520	US	13 DEC	108.4	70.34	2064	237		
B UPSILON 1	RELAY 1	503	US	13 DEC	185.1	47.48	7439	1318		
B UPSILON 2	ROCKET BODY	515	US	13 DEC	184.8	47.53	7418	1323		
B CHI 1	EXPLORER 16	506	US	16 DEC	104.4	52.05	1175	754		
B PSI 1	TRANSIT 5A	509	US	19 DEC	99.1	90.64	735	695		
B PSI 2		514	US	19 DEC	97.6	90.77	722	569		
B PSI 3		519	US	19 DEC	99.1	90.65	733	696		
B PSI 4		523	US	19 DEC	100.2	90.51	832	704		
1963 LAUNCHES										
1963 03A		527	US	16 JAN	94.4	81.89	519	459		
1963 04A	SYNCOM 1	553	US	14 FEB	CURRENT ELEMENTS NOT MAINTAINED					
1963 04B	ROCKET BODY	532	US	14 FEB	CURRENT ELEMENTS NOT MAINTAINED					
1963 05A		533	US	19 FEB	97.6	100.48	794	501		
1963 05B		534	US	19 FEB	97.7	100.47	795	502		
1963 05C		535	US	19 FEB	96.8	100.50	743	467		
1963 05D		536	US	19 FEB	98.3	100.48	835	521		
1963 08B		566	USSR	2 APR	BARYCENTRIC ORBIT					
1963 09A	EXPLORER 17	564	US	3 APR	93.1	57.62	601	249		
1963 13A	TELSTAR 2	573	US	7 MAY	225.3	42.75	10804	969		

OBJECTS IN ORBIT

<u>OBJECT</u>	<u>CODE NAME</u>	<u>CATALOGUE NUMBER</u>	<u>SOURCE</u>	<u>LAUNCH</u>	<u>PERIOD MINUTES</u>	<u>INCLIN- NATION</u>	<u>APOGEE Km.</u>	<u>PERIGEE Km.</u>	<u>TRANSMITTING FREQ. (MC/S)</u>
1963 LAUNCHES (CONT'D)									
1963 13B	ROCKET BODY	575	US	7 MAY	225.1	42.77	10788	968	
1963 14A		574	US	9 MAY	166.4	87.50	3687	3604	
1963 14B		579	US	9 MAY	166.4	87.36	4177	3114	
1963 14C		608	US	9 MAY	166.4	87.34	3690	3601	
1963 14D		589	US	9 MAY	CURRENT ELEMENTS NOT MAINTAINED				
1963 14E		602	US	9 MAY	165.1	87.35	3653	3610	
1963 14F		628	US	9 MAY	165.8	87.33	3668	3654	
1963 14G		629	US	9 MAY	166.4	87.33	3709	3581	
1963 14H		702	US	9 MAY	166.4	87.33	3675	3615	
1963 22A		594	US	16 JUN	99.7	90.01	764	725	\$150\$400
1963 22B		603	US	16 JUN	99.7	90.01	758	731	
1963 22C		610	US	16 JUN	101.2	90.21	891	742	
1963 22D		611	US	16 JUN	98.1	89.80	770	566	
1963 24A	TIROS 7	604	US	19 JUN	97.4	58.26	651	620	\$136.233\$136.924
1963 24B	ROCKET BODY	605	US	19 JUN	97.3	58.23	645	616	
1963 24C	METAL OBJECT	606	US	19 JUN	97.9	58.41	676	638	
1963 24D	METAL OBJECT	607	US	19 JUN	96.9	58.10	646	571	
1963 25B		614	US	27 JUN	132.0	82.12	4082	342	
1963 26A	RESEARCH	612	US	28 JUN	102.0	49.72	1290	415	
	SATELLITE FOR GEOPHYSICS								
1963 27A		613	US	29 JUN	94.6	82.30	519	483	
1963 30A		622	US	18 JUL	167.8	88.51	3739	3666	
1963 30B		635	US	18 JUL	166.4	89.48	3966	3299	
1963 30C		630	US	18 JUL	167.5	88.41	3722	3654	
1963 30D		624	US	18 JUL	167.5	87.97	4622	2752	
1963 30E		631	US	18 JUL	168.3	88.43	3788	3651	



OBJECTS IN ORBIT

<u>OBJECT</u>	<u>CODE NAME</u>	<u>CATALOGUE NUMBER</u>	<u>SOURCE</u>	<u>LAUNCH</u>	<u>PERIOD MINUTES</u>	<u>INCLI- NATION</u>	<u>APOGEE Km.</u>	<u>PERIGEE Km.</u>	<u>TRANSMITTING FREQ. (MC/S)</u>
<b>1963 LAUNCHES (CONT'D)</b>									
1963 31A	SYNCOM 2	634	US	26 JUL	1436.0	31.78	35810	35759	\$136.467\$136.980 \$1814.069 \$1815.794 \$1820.177
1963 31B	ROCKET BODY	625	US	26 JUL	CURRENT ELEMENTS	NOT MAINTAINED			
1963 38A		669	US	28 SEP	107.1	89.91	1113	1074	
1963 38B		670	US	28 SEP	107.4	89.91	1136	1075	
1963 38C		671	US	28 SEP	107.3	89.92	1138	1072	
1963 38D		672	US	28 SEP	107.3	89.95	1126	1082	
1963 38E		745	US	28 SEP	107.1	89.95	1113	1072	
1963 39A		674	US	17 OCT	6481.3	37.97	116742	100803	
1963 39B		675	US	17 OCT	CURRENT ELEMENTS	NOT MAINTAINED			
1963 39C		692	US	17 OCT	6512.3	37.02	115029	103251	
1963 43A		683	USSR	1 NOV	102.2	58.96	1386	341	
1963 43B	POLYOT 1	684	USSR	1 NOV	98.3	58.62	1023	329	
1963 43D		686	USSR	1 NOV	97.8	59.79	989	321	
1963 46A		693	US	27 NOV	CURRENT ELEMENTS	NOT MAINTAINED			
1963 47A	EXPLORER 18 CENTAUR 2	694	US	27 NOV	107.8	30.36	1777	469	
1963 47B		696	US	27 NOV	107.2	30.05	1614	578	
1963 47C		697	US	27 NOV	107.4	30.06	1635	578	
1963 47D		698	US	27 NOV	108.0	29.92	1659	608	
1963 47E		699	US	27 NOV	108.6	30.45	1746	576	
1963 47F		700	US	27 NOV	108.6	30.46	1753	572	
1963 47G		701	US	27 NOV	107.8	29.99	1647	602	
1963 47H		739	US	27 NOV	105.9	30.41	1591	478	
1963 49A		703	US	5 DEC	106.8	89.95	1089	1071	
1963 49B		704	US	5 DEC	107.1	89.94	1123	1067	\$150\$400

OBJECTS IN ORBIT

<u>OBJECT</u>	<u>CODE NAME</u>	<u>CATALOGUE NUMBER</u>	<u>SOURCE</u>	<u>LAUNCH</u>	<u>PERIOD MINUTES</u>	<u>INCLI- NATION</u>	<u>APOGEE Km.</u>	<u>PERIGEE Km.</u>	<u>TRANSMITTING FREQ. (MC/S)</u>
1963 LAUNCHES (CONT'D)									
1963 49C		705	US	5 DEC	107.1	89.94	1121	1067	
1963 49D		706	US	5 DEC	107.1	89.97	1115	1068	
1963 49E		715	US	5 DEC	107.1	89.97	1116	1070	
1963 49F		753	US	5 DEC	107.1	89.97	1121	1068	
1963 53A	EXPLORER 19	714	US	19 DEC	115.1	78.65	2276	647	
1963 53B		721	US	19 DEC	115.8	78.63	2398	593	
1963 53C		722	US	19 DEC	115.8	78.61	2375	611	
1963 53D		723	US	19 DEC	115.8	78.63	2386	604	
1963 53E		724	US	19 DEC	115.9	78.63	2382	613	
1963 53F		725	US	19 DEC	115.7	78.64	2363	619	
1963 53G		726	US	19 DEC	115.8	78.61	2381	602	
1963 53H		732	US	19 DEC	115.7	78.61	2382	598	
1963 54A	TIROS 8	716	US	21 DEC	99.4	58.53	748	708	\$136.231\$136.924
1963 54B		717	US	21 DEC	99.3	58.55	743	706	
1963 54C		720	US	21 DEC	101.1	58.50	915	703	
1963 54D		736	US	21 DEC	97.7	58.55	709	585	
1964 LAUNCHES									
1964 01A		727	US	11 JAN	103.4	69.93	935	910	
1964 01B	GGSE	728	US	11 JAN	103.4	69.92	933	912	
1964 01C	EGRS 1	729	US	11 JAN	103.4	69.92	933	911	136.805
1964 01D	SOLAR RAD.	730	US	11 JAN	103.5	69.93	937	908	136.886
1964 01E		731	US	11 JAN	103.5	69.92	934	912	
1964 02A		733	US	19 JAN	101.3	99.13	847	794	
1964 02B		734	US	19 JAN	101.3	99.11	835	804	
1964 02C		735	US	19 JAN	101.3	99.11	835	808	
1964 03A	RELAY 2	737	US	21 JAN	194.7	46.32	7420	2079	136.620\$136.142

# OBJECTS IN ORBIT

OBJECT	CODE NAME	CATALOGUE NUMBER	SOURCE	LAUNCH	PERIOD MINUTES	INCL- NATION	APOGEE Km.	PERIGEE Km.	TRANSMITTING FREQ. (MC/S)
1964 LAUNCHES (CONT'D)									
1964 03B		738	US	21 JAN	194.8	46.35	7419	2086	
1964 04A	ECHO 2	740	US	25 JAN	108.1	81.52	1221	1055	136.019; 136.170
1964 04B		741	US	25 JAN	108.9	81.49	1308	1047	
1964 04C		742	US	25 JAN	108.8	81.49	1308	1041	
1964 04D		743	US	25 JAN	108.8	81.56	1308	1040	
1964 04E		749	US	25 JAN	92.5	81.53	511	271	
1964 05A	SATURN 5	744	US	29 JAN	91.3	31.44	427	239	
1964 06A	ELEKTRON 1	746	USSR	30 JAN	169.2	60.91	7113	402	
1964 06B	ELEKTRON 2	748	USSR	30 JAN	1356.3	58.46	66650	1771	
1964 06C		750	USSR	30 JAN	167.9	60.83	6994	413	
1964 06D		751	USSR	30 JAN	1384.1	58.59	6778	1847	
1964 11A		759	US	28 FEB	94.5	82.07	505	489	
1964 15A	ARIEL 2	771	US/UK	27 MAR	99.4	51.67	1174	283	136.557
1964 15B		775	US	27 MAR	98.5	51.66	1091	281	
1964 15C		847	US	27 MAR	103.1	51.39	1438	367	
1964 16D		785	USSR	2 APR	HELIOCENTRIC ORBIT				
1964 19B	POLYOT 2	784	USSR	12 APR	91.0	58.06	367	278	
1964 26A		801	US	4 JUN	103.1	90.52	951	860	\$150\$400
1964 26B		805	US	4 JUN	103.8	90.21	978	906	
1964 26C		806	US	4 JUN	102.3	90.86	949	787	
1964 26D		809	US	4 JUN	103.1	90.52	954	856	
1964 31A		812	US	18 JUN	101.6	99.73	838	830	
1964 31B		813	US	18 JUN	101.6	99.74	838	832	
1964 31C		815	US	18 JUN	101.6	99.80	840	828	
1964 35A		824	US	2 JUL	94.8	82.10	525	494	

OBJECTS IN ORBIT

<u>OBJECT</u>	<u>CODE NAME</u>	<u>CATALOGUE NUMBER</u>	<u>SOURCE</u>	<u>LAUNCH</u>	<u>PERIOD MINUTES</u>	<u>INCL- NATION</u>	<u>APOGEE Km.</u>	<u>PERIGEE Km.</u>	<u>TRANSMITTING FREQ. (MC/S)</u>
<b>1964 LAUNCHES (CONT'D)</b>									
1964 38A	ELECKTRON 3	829	USSR	10 JUL	168.1	60.93	7015	408	
1964 38B	ELECKTRON 4	830	USSR	10 JUL	1313.8	59.06	65555	1162	
1964 38C		831	USSR	10 JUL	168.3	60.91	7014	428	
1964 38D		832	USSR	10 JUL	1341.3	59.16	66651	1170	
1964 40A		836	US	17 JUL	6024.8	39.08	104101	102500	
1964 40B		837	US	17 JUL	6004.3	40.75	114000	92103	
1964 40C		838	US	17 JUL	CURRENT ELEMENTS NOT MAINTAINED				
1964 41B		843	US	28 JUL	BARYCENTRIC ORBIT				
1964 45B		851	US	14 AUG	126.2	95.66	3641	271	\$136.470\$136.980
1964 47A	SYNCOM 3	858	US	19 AUG	1436.2	.10	35792	35784	\$1820.177\$1815.794
									\$1814.931
1964 47B		862	US	19 AUG	CURRENT ELEMENTS NOT MAINTAINED				
1964 49D	COSMOS 41	869	USSR	22 AUG	714.5	66.06	39390	796	
1964 49E		898	USSR	22 AUG	717.4	67.10	39795	516	
1964 51A	EXPLORER 20	870	US	25 AUG	103.9	79.91	39488	851	\$136.326\$136.350
									\$136.680
1964 51B		871	US	25 AUG	103.8	79.91	1014	870	
1964 51C		873	US	25 AUG	103.2	79.82	971	850	
1964 51D		874	US	25 AUG	103.3	79.81	1008	823	
1964 51E		875	US	25 AUG	103.3	79.80	1031	800	
1964 52A	NIMBUS 1	872	US	28 AUG	98.3	98.70	928	426	
1964 52B		878	US	28 AUG	98.3	98.69	930	427	

OBJECTS IN ORBIT

<u>OBJECT</u>	<u>CODE NAME</u>	<u>CATALOGUE NUMBER</u>	<u>SOURCE</u>	<u>LAUNCH</u>	<u>PERIOD MINUTES</u>	<u>INCLJ- NATION</u>	<u>APOGEE Km.</u>	<u>PERIGEE Km.</u>	<u>TRANSMITTING FREQ. (MC/S)</u>
<b>1964 LAUNCHES (CONT'D)</b>									
1964 53A	COSMOS 44	876	USSR	28 AUG	99.5	65.10	874	598	
1964 53B		877	USSR	28 AUG	99.6	65.09	809	669	
1964 54A	OGO 1	879	US	5 SEP	3841.9	40.72	144824	4930	\$136.200\$400.250 \$400.850 136.147
1964 60A	EXPLORER 21	889	US	4 OCT	2080.3	33.72	94288	917	
1964 63A		893	US	6 OCT	106.3	89.91	1080	1035	
1964 63B		897	US	6 OCT	106.6	89.89	1081	1059	
1964 63C		900	US	6 OCT	106.6	89.92	1082	1055	
1964 63D		901	US	6 OCT	106.6	89.93	1081	1063	
1964 63E		902	US	6 OCT	106.6	89.92	1079	1062	
1964 63F		903	US	6 OCT	106.6	89.92	1086	1057	
1964 64A	EXPLORER 22	899	US	10 OCT	104.8	79.71	1082	887	\$136.171\$162\$324 \$20\$40\$41\$360
1964 64B		907	US	10 OCT	104.7	79.71	1079	889	
1964 64C		976	US	10 OCT	104.0	79.34	1065	837	
1964 64D		977	US	10 OCT	105.5	80.06	1124	913	
1964 72A		922	US	4 NOV	94.9	82.04	522	509	
1964 72B		925	US	4 NOV	94.7	82.04	514	500	
1964 72C		926	US	4 NOV	94.0	82.05	473	464	
1964 72D		927	US	4 NOV	94.0	82.01	472	467	
1964 73A	MARINER 3	923	US	5 NOV	HELIOCENTRIC ORBIT				
1964 74A	EXPLORER 23	924	US	6 NOV	99.2	51.97	972	468	\$136.078\$136.861
1964 76A	EXPLORER 24	931	US	21 NOV	115.5	81.43	2361	600	136.709
1964 76B	EXPLORER 25	932	US	21 NOV	116.2	81.36	2493	531	\$136.292\$136.860
1964 76C		933	US	21 NOV	116.2	81.37	2492	534	
1964 76D		934	US	21 NOV	116.3	81.40	2486	549	
1964 76E		935	US	21 NOV	116.2	81.39	2483	541	

OBJECTS IN ORBIT

<u>OBJECT</u>	<u>CODE NAME</u>	<u>CATALOGUE NUMBER</u>	<u>SOURCE</u>	<u>LAUNCH</u>	<u>PERIOD MINUTES</u>	<u>INCL I- NATION</u>	<u>APOGEE Km.</u>	<u>PERIGEE Km.</u>	<u>TRANSMITTING FREQ. (MC/S)</u>
<b>1964 LAUNCHES (CONT'D)</b>									
1964 76F		936	US	21 NOV	115.4	81.30	2374	574	
1964 76G		937	US	21 NOV	116.0	81.37	2471	538	
1964 76H		939	US	21 NOV	115.0	81.37	2325	588	
1964 76I		940	US	21 NOV	116.0	81.37	2476	532	
1964 76J		941	US	21 NOV	116.2	81.35	2471	553	
1964 76K		960	US	21 NOV	116.4	81.47	2437	605	
1964 76L		1411	US	21 NOV	116.3	81.39	2481	553	
1964 77A	MARINER 4	938	US	28 NOV	HELIOCENTRIC ORBIT				
1964 77B		942	US	28 NOV	HELIOCENTRIC ORBIT				
1964 78C	ZOND 2	945	USSR	30 NOV	HELIOCENTRIC ORBIT				
1964 83A		953	US	13 DEC	106.0	89.97	1067	1020	
1964 83B		956	US	13 DEC	106.3	90.00	1086	1027	
1964 83C		959	US	13 DEC	106.3	89.96	1087	1027	136.650\$162\$324
1964 83D		965	US	13 DEC	106.3	89.98	1091	1024	\$150\$400
1964 83E		966	US	13 DEC	106.3	89.97	1086	1028	
1964 83F		967	US	13 DEC	106.3	89.98	1090	1023	
1964 83G		1099	US	13 DEC	106.3	89.99	1083	1031	
1964 83H		1528	US	13 DEC	106.3	89.99	1089	1026	
1964 83J		1608	US	13 DEC	106.3	89.99	1085	1028	
1964 86A	EXPLORER 26	963	US	21 DEC	451.6	19.85	25936	300	136.273
<b>1965 LAUNCHES</b>									
1965 03A		973	US	19 JAN	97.6	98.70	831	461	
1965 04A	TIROS 9	978	US	22 JAN	119.2	96.39	2583	706	\$136.234\$136.198
1965 04B		979	US	22 JAN	119.3	96.41	2593	707	
1965 04C		1312	US	22 JAN	118.0	96.36	2516	672	
1965 04D		1313	US	22 JAN	120.4	96.62	2617	781	
1965 06A	COSMOS 53	983	USSR	30 JAN	95.1	48.71	831	216	

OBJECT	CODE NAME	CATALOGUE NUMBER	OBJECTS IN ORBIT				APOGEE Km.	PERIGEE Km.	TRANSMITTING FREQ. (MC/S)
			SOURCE	LAUNCH	PERIOD MINUTES	INCLI- NATION			
1965 LAUNCHES (CONT'D)									
1965 07A	ORB.SOL.OBS. 2	987	US	3 FEB	96.5	32.35	631	545	136.713
1965 07B		988	US	3 FEB	96.5	32.36	634	548	
1965 08A		1000	US	11 FEB	145.6	32.13	2800	2778	
1965 08B		1001	US	11 FEB	145.4	32.14	2796	2760	
1965 08C		1002	US	11 FEB	145.7	32.13	2807	2778	
1965 09A	PEGASUS 1	1085	US	16 FEB	97.0	31.75	733	493	\$136.410;136.890
1965 09B		1088	US	16 FEB	97.1	31.75	733	499	
1965 10B		1087	US	17 FEB	BARYCENTRIC ORBIT				
1965 11A	COSMOS 54	1089	USSR	21 FEB	103.7	56.10	1606	263	
1965 11B	COSMOS 55	1090	USSR	21 FEB	103.7	56.06	1607	263	
1965 11C	COSMOS 56	1091	USSR	21 FEB	102.7	56.08	1513	261	
1965 11D		1092	USSR	21 FEB	105.6	56.11	1765	276	
1965 11E		1094	USSR	21 FEB	96.7	56.15	922	239	
1965 14A	COSMOS 58	1097	USSR	26 FEB	96.8	65.23	624	584	
1965 14B		1098	USSR	26 FEB	96.9	65.06	691	527	
1965 16A	GREB	1271	US	9 MAR	103.5	70.07	942	908	
1965 16B	GRAVITY GRADIENT II	1244	US	9 MAR	103.5	70.07	942	908	
1965 16C	GRAVITY GRADIENT III	1292	US	9 MAR	103.5	70.07	942	908	
1965 16D	SOLAR RAD.	1291	US	9 MAR	103.5	70.08	942	908	
1965 16E	EGRS III	1208	US	9 MAR	103.5	70.08	940	908	
1965 16F	OSCAR III	1293	US	9 MAR	103.5	70.09	939	909	
1965 16G	SURCAL	1310	US	9 MAR	103.5	70.10	942	904	
1965 16H	DODECAHEDRON	1272	US	9 MAR	103.5	70.09	940	909	
1965 16J	ROCKET BODY	1245	US	9 MAR	103.5	70.11	942	905	
1965 17B	EGRS II	1250	US	11 MAR	97.3	89.98	972	285	
1965 17C		1228	US	11 MAR	97.0	89.98	951	279	
1965 17D		1248	US	11 MAR	97.0	90.00	947	285	

OBJECTS IN ORBIT

<u>OBJECT</u>	<u>CODE NAME</u>	<u>CATALOGUE NUMBER</u>	<u>SOURCE</u>	<u>LAUNCH</u>	<u>PERIOD MINUTES</u>	<u>INCLI- NATION</u>	<u>APOGEE Km.</u>	<u>PERIGEE Km.</u>	<u>TRANSMITTING FREQ. (MC/S)</u>
<b>1965 LAUNCHES (CONT'D)</b>									
1965 20A	COSMOS 61	1267	USSR	15 MAR	103.6	56.06	1591	265	
1965 20B	COSMOS 62	1268	USSR	15 MAR	103.7	56.09	1607	263	
1965 20C	COSMOS 63	1269	USSR	15 MAR	102.8	56.07	1515	263	
1965 20D-20EE***			USSR	15 MAR					
1965 21A		1273	US	18 MAR	97.5	98.98	758	527	
1965 21C		1289	US	18 MAR	97.5	99.00	758	527	
1965 21E		1376	US	18 MAR	96.4	98.97	655	523	
1965 21F		1463	US	18 MAR	98.6	99.02	865	523	
1965 23B		1298	US	21 MAR	BARYCENTRIC ORBIT				
1965 27A		1314	US	3 APR	111.5	90.21	1319	1275	
1965 27B		1315	US	3 APR	111.4	90.20	1315	1275	
1965 27C	EGRS IV	1316	US	3 APR	111.5	90.22	1317	1275	
1965 27D		1389	US	3 APR	111.5	90.19	1316	1279	
1965 27E		1399	US	3 APR	111.5	90.21	1326	1269	
1965 28A	EARLY BIRD	1317	US	6 APR	1437.3	.13	36596	35025	
1965 28B	ROCKET BODY	1318	US	6 APR	CURRENT ELEMENTS NOT MAINTAINED				
1965 30A	MOLNIA 1	1324	USSR	23 APR	720.3	65.32	39734	755	
1965 31B		1329	US	28 APR	95.1	95.19	550	499	
1965 31G		1357	US	28 APR	93.7	95.17	460	449	
1965 32A	EXPLORER 27	1328	US	29 APR	107.8	41.17	1314	938	\$136.740\$162\$324
1965 32B		1358	US	29 APR	107.8	41.16	1317	933	\$20\$40\$41\$360
1965 34A		1359	US	6 MAY	157.0	32.12	3744	2779	
1965 34B		1360	US	6 MAY	309.9	32.09	14811	2771	
1965 34C		1361	US	6 MAY	145.6	32.13	2800	2775	
1965 38A		1377	US	20 MAY	100.0	98.58	963	556	
1965 38B		1378	US	20 MAY	100.0	98.60	967	552	
1965 38C		1379	US	20 MAY	99.9	98.60	954	560	
1965 38D		1380	US	20 MAY	98.3	98.84	831	521	
1965 38E		1461	US	20 MAY	101.0	98.65	1046	565	
1965 38F		1462	US	20 MAY	98.9	98.59	867	551	



# OBJECTS IN ORBIT

OBJECT	CODE NAME	CATALOGUE NUMBER	SOURCE	LAUNCH	PERIOD MINUTES	INCLI- NATION	APOGEE Km.	PERIGEE Km.	TRANSMITTING FREQ. (MC/S)
1965 LAUNCHES (CONT'D)									
1965 38G		1475	US	20 MAY	100.1	98.60	982	551	
1965 39A	PEGASUS 2	1381	US	25 MAY	97.2	31.76	732	509	\$136.410;136.889
1965 39B	ROCKET BODY	1385	US	25 MAY	97.2	31.75	736	510	
1965 42A	EXPLORER 28	1388	US	29 MAY	8558.8	33.86	264247	196	136.125
1965 44A	LUNIK 6	1393	USSR	8 JUN	HELIOCENTRIC ORBIT				
1965 48A		1420	US	24 JUN	106.9	89.97	1142	1029	
1965 48B		1425	US	24 JUN	106.9	89.97	1140	1028	
1965 48C		1428	US	24 JUN	106.6	89.97	1114	1026	
1965 48D		1435	US	24 JUN	106.9	90.00	1142	1030	
1965 50A		1422	US	25 JUN	94.6	107.65	507	495	
1965 51A	TIROS 10	1430	US	2 JUL	100.7	98.60	837	745	\$136.232\$136.924
1965 51B		1433	US	2 JUL	100.7	98.64	843	744	
1965 51C		1440	US	2 JUL	99.3	98.46	842	614	
1965 51D		1529	US	2 JUL	102.0	98.72	887	824	
1965 52A	COSMOS 70	1431	USSR	2 JUL	96.9	48.74	985	222	
1965 52B		1432	USSR	2 JUL	95.5	48.78	854	228	
1965 53A	COSMOS 71	1441	USSR	16 JUL	95.3	56.05	537	525	
1965 53B	COSMOS 72	1442	USSR	16 JUL	95.9	56.08	589	536	
1965 53C	COSMOS 73	1443	USSR	16 JUL	95.6	56.08	557	537	
1965 53D	COSMOS 74	1444	USSR	16 JUL	96.2	56.06	617	538	
1965 53E	COSMOS 75	1445	USSR	16 JUL	96.5	56.06	644	539	
1965 53F		1448	USSR	16 JUL	96.6	56.10	646	543	
1965 53G		1449	USSR	16 JUL	95.1	56.05	534	508	
1965 53H		1473	USSR	16 JUL	96.7	56.03	661	537	
1965 55A		1447	US	17 JUL	94.4	70.19	511	469	
1965 55B		1452	US	17 JUL	93.8	70.15	476	442	
1965 55C		1455	US	17 JUL	94.1	70.18	494	456	
1965 55D		1744	US	17 JUL	94.0	70.16	490	448	
1965 55E		1745	US	17 JUL	93.9	70.16	487	443	
1965 56A	ZOND 3	1454	USSR	18 JUL	HELIOCENTRIC ORBIT				
1965 58A		1458	US	20 JUL	6679.0	35.34	115839	106367	
1965 58B		1459	US	20 JUL	6712.7	34.22	121281	101715	

OBJECTS IN ORBIT

<u>OBJECT</u>	<u>CODE NAME</u>	<u>CATALOGUE NUMBER</u>	<u>SOURCE</u>	<u>LAUNCH</u>	<u>PERIOD MINUTES</u>	<u>INCLI- NATION</u>	<u>APOGEE Km.</u>	<u>PERIGEE Km.</u>	<u>TRANSMITTING FREQ. (MC/S)</u>
<b>1965 LAUNCHES (CONT'D)</b>									
1965 58C		1460	US	20 JUL	2595.4	36.88	111793	566	136.768
1965 59A		1464	USSR	23 JUL	90.0	48.78	379	240	
1965 60A	PEGASUS 3	1467	US	30 JUL	95.1	28.87	533	514	\$136.410; 136.590
1965 60B		1468	US	30 JUL	95.2	28.87	534	519	
1965 62B		1472	US	3 AUG	94.7	107.35	507	503	
1965 63A	EGRS 5	1506	US	10 AUG	122.2	69.25	2425	1137	
1965 63B		1502	US	10 AUG	122.2	69.25	2424	1139	
1965 64A	CENTAUR 6	1503	US	11 AUG	CURRENT ELEMENTS NOT MAINTAINED				
1965 65A		1504	US	13 AUG	108.1	90.03	1192	1089	
1965 65B		1508	US	13 AUG	107.9	90.01	1159	1102	
1965 65C		1510	US	13 AUG	108.1	90.01	1192	1086	
1965 65D		1511	US	13 AUG	108.1	90.05	1194	1086	
1965 65E		1512	US	13 AUG	108.1	90.00	1192	1089	
1965 65F		1514	US	13 AUG	108.1	90.04	1195	1088	
1965 65G		1515	US	13 AUG	108.1	90.01	1188	1089	
1965 65H		1520	US	13 AUG	108.1	90.04	1197	1085	
1965 65J		1521	US	13 AUG	108.1	90.02	1189	1092	
1965 65K		1522	US	13 AUG	108.1	90.04	1201	1082	
1965 65L		1577	US	13 AUG	108.1	90.05	1197	1085	
1965 70A	COSMOS 80	1570	USSR	3 SEP	115.0	56.09	1546	1362	
1965 70B	COSMOS 81	1571	USSR	3 SEP	115.3	56.12	1551	1391	
1965 70C	COSMOS 82	1572	USSR	3 SEP	115.7	56.11	1558	1415	
1965 70D	COSMOS 83	1573	USSR	3 SEP	116.1	56.11	1565	1442	
1965 70E	COSMOS 84	1574	USSR	3 SEP	116.4	56.10	1572	1469	
1965 70F		1575	USSR	3 SEP	114.6	56.16	1516	1357	
1965 72A		1580	US	10 SEP	101.9	98.63	1053	651	
1965 72B		1581	US	10 SEP	101.6	98.75	1033	638	
1965 72C		1582	US	10 SEP	101.6	98.66	1039	625	
1965 72D		1583	US	10 SEP	101.9	98.64	1055	649	
1965 72E		1931	US	10 SEP	103.3	98.70	1178	656	
1965 72F		1932	US	10 SEP	100.7	98.64	933	653	

OBJECTS IN ORBIT

<u>OBJECT</u>	<u>CODE NAME</u>	<u>CATALOGUE NUMBER</u>	<u>SOURCE</u>	<u>LAUNCH</u>	<u>PERIOD MINUTES</u>	<u>INCL I- NATION</u>	<u>APOGEE Km.</u>	<u>PERIGEE Km.</u>	<u>TRANSMITTING FREQ. (MC/S)</u>
<b>1965 LAUNCHES (CONT'D)</b>									
1965 73A	COSMOS 86	1584	USSR	18 SEP	115.1	56.04	1637	1278	
1965 73B	COSMOS 87	1585	USSR	18 SEP	115.5	56.05	1645	1308	
1965 73C	COSMOS 88	1586	USSR	18 SEP	115.8	56.11	1660	1328	
1965 73D	COSMOS 89	1587	USSR	18 SEP	116.2	56.10	1674	1351	
1965 73E	COSMOS 90	1588	USSR	18 SEP	116.7	56.09	1683	1379	
1965 73F		1589	USSR	18 SEP	116.8	56.08	1694	1381	
1965 73G		1590	USSR	18 SEP	116.5	56.10	1678	1371	
1965 73H		1591	USSR	18 SEP	116.7	56.03	1689	1375	
1965 73J		1617	USSR	18 SEP	117.5	56.14	1755	1384	
1965 73K		1618	USSR	18 SEP	117.7	56.21	1768	1388	
1965 78A		1613	US	5 OCT	125.7	144.30	3451	413	
1965 78B		1616	US	5 OCT	125.6	144.30	3448	411	
1965 80A	2nd MOLNIYA I	1621	USSR	13 OCT	715.9	64.86	39736	427	\$136.200\$400.250.
1965 81A	OGO 2	1620	US	14 OCT	104.4	87.37	1511	421	\$400.850
1965 81B		1625	US	14 OCT	104.3	87.38	1506	419	
1965 82A	TITAN 3 C-4	1624	US	15 OCT	100.0	32.31	784	729	
1965 82B-82GQ****			US	15 OCT					
1965 87A	PROTON 2	1701	USSR	2 NOV	90.3	63.45	408	169	
1965 88A	COSMOS 95	1706	USSR	4 NOV	89.1	48.39	258	182	
1965 89A	EXPLORER 29	1726	US	6 NOV	120.3	59.40	2275	1116	\$136.830\$162
1965 89B		1729	US	6 NOV	120.3	59.41	2276	1114	\$324\$972
1965 91A	VENERA 2	1730	USSR	12 NOV	HELIOCENTRIC OREIT				
1965 92A	VENERA 3	1733	USSR	16 NOV	HELIOCENTRIC OREIT				
1965 92D		1736	USSR	16 NOV	HELIOCENTRIC OREIT				

OBJECTS IN ORBIT

<u>OBJECT</u>	<u>CODE NAME</u>	<u>CATALOGUE NUMBER</u>	<u>SOURCE</u>	<u>LAUNCH</u>	<u>PERIOD MINUTES</u>	<u>INCLI- NATION</u>	<u>APOGEE Km.</u>	<u>PERIGEE Km.</u>	<u>TRANSMITTING FREQ. (MC/S)</u>
<b>1965 LAUNCHES (CONT'D)</b>									
1965 93A	EXPLORER 30	1738	US	19 NOV	100.8	59.74	898	697	136.530
1965 93B		1739	US	19 NOV	100.8	59.74	880	709	
1965 95A	COSMOS 91	1777	USSR	26 NOV	108.0	48.35	2054	213	
1965 95B		1779	USSR	26 NOV	107.7	48.53	2016	218	
1965 95C		1782	USSR	26 NOV	108.1	48.41	1134	204	
1965 95D		1783	USSR	26 NOV	107.8	48.40	875	204	
1965 96A	A-1	1778	FRENCH	26 NOV	108.7	34.26	1800	528	
1965 96B		1805	FRENCH	26 NOV	108.8	34.25	1808	528	
1965 97B		1781	USSR	27 NOV	89.9	65.04	346	181	\$136.080\$136.590
1965 98A	ALOUETTE 2	1804	CANADA	29 NOV	121.4	79.84	2985	506	136.980
1965 98B	EXPLORER 31	1806	US	29 NOV	121.3	79.83	2976	507	\$136.380
1965 98C		1807	US	29 NOV	121.3	79.85	2980	504	
1965 98D		1808	US	29 NOV	121.4	79.84	2983	503	
1965 100C		1845	US	4 DEC	89.7	28.89	254	254	
1965 101A	FR-1	1814	FRENCH	6 DEC	99.9	75.88	762	746	
1965 101B		1815	US	6 DEC	100.0	75.87	769	753	
1965 101C		1934	US	6 DEC	99.9	76.46	778	737	
1965 101D		1935	US	6 DEC	99.6	75.24	782	695	
1965 105A	PIONEER 6	1841	US	16 DEC	HELIOCENTRIC ORBIT				
1965 105B		1842	US	16 DEC	100.3	30.18	1270	273	
1965 106A	COSMOS 100	1843	USSR	17 DEC	97.6	65.01	658	629	
1965 106B		1844	USSR	17 DEC	97.7	65.01	740	562	
1965 107A	COSMOS 101	1846	USSR	21 DEC	92.3	48.78	521	254	
1965 107B		1847	USSR	21 DEC	92.1	48.77	495	254	
1965 108A	TITAN 3 C-8	1863	US	21 DEC	589.2	26.49	33612	186	
1965 108B	LES 4	1870	US	21 DEC	589.6	26.60	33620	200	
1965 108C	OSCAR IV	1902	US	21 DEC	587.5	26.80	33550	162	
1965 109A		1864	US	22 DEC	105.0	89.11	1086	909	
1965 109B		1865	US	22 DEC	105.0	89.11	1085	909	
1965 110A		1866	US	24 DEC	89.8	80.02	320	175	
1965 112A	COSMOS 103	1868	USSR	28 DEC	97.0	56.04	637	593	\$136.350 136.800

OBJECTS IN ORBIT											
OBJECT	CODE NAME	CATALOGUE NUMBER	SOURCE	LAUNCH	PERIOD MINUTES	INCLI- NATION	APOGEE Km.	PERIGEE Km.	TRANSMITTING FREQ. (MC/S)		
1965 LAUNCHES (CONT'D)											
1965 112B		1869	USSR	28 DEC	97.1	56.06	643	595			
1965 112C		1871	USSR	28 DEC	96.6	56.03	637	553			
1965 112D		1872	USSR	28 DEC	96.6	56.02	636	557			
1965 112E		1873	USSR	28 DEC	96.4	56.03	605	571			
1965 112F		1874	USSR	28 DEC	96.6	56.02	612	583			
1965 112G		1875	USSR	28 DEC	96.7	56.05	614	582			
1965 112H		1876	USSR	28 DEC	96.8	56.03	623	587			
1965 112J		1877	USSR	28 DEC	97.2	55.97	646	608			
1965 112K		1878	USSR	28 DEC	97.2	56.05	650	595			
1965 112L		1906	USSR	28 DEC	97.4	56.27	643	624			
1965 112M		1907	USSR	28 DEC	97.4	56.32	652	620			
1965 112N		1933	USSR	28 DEC	96.0	56.04	645	491			
1966 LAUNCHES											
1966 01B		1904	USSR	7 JAN	89.9	65.03	350	183			

\* APHELION PERIHELION IN ASTRONOMICAL UNITS, INCLINATION TO ECLIPTIC.  
 \*\* TWO HUNDRED AND SIX METAL OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED  
 WITH 1961 OMICRON 1 AND 1961 OMICRON 2. OBJECTS OF THIS SERIES THAT HAVE DECAYED  
 CAN BE FOUND IN THE DECAYED OBJECTS LISTS.  
 \*\*\* ONE HUNDRED AND TWENTY TWO OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED  
 WITH 1965 20A, 1965 20B AND 1965 20C. OBJECTS OF THIS SERIES THAT HAVE DECAYED  
 CAN BE FOUND IN THE DECAYED OBJECTS LISTS.  
 \*\*\*\*\* ONE HUNDRED AND EIGHTY TWO OBJECTS HAVE BEEN IDENTIFIED AS DEBRIS ASSOCIATED WITH  
 1965 82A.  
 § TRANSMITTING ON COMMAND ONLY.  
 & TRANSMITTING WHEN IN SUNLIGHT ONLY.  
 # NO CATALOGUE NUMBER ASSIGNED.

# DECAYED OBJECTS

OBJECT	CODE NAME	CATALOGUE NUMBER	SOURCE	LAUNCH	DECAY
1957 LAUNCHES					
ALPHA 1	ROCKET BODY	001	USSR	4 OCT	1 DEC 57
ALPHA 2	SPUTNIK 1	002	USSR	4 OCT	EARLY JAN 58
BETA 1	SPUTNIK 2	003	USSR	3 NOV	14 APR 58
1958 LAUNCHES					
GAMMA 1	EXPLORER 3	006	US	26 MAR	28 JUN 58
DELTA 1	ROCKET BODY	007	USSR	15 MAY	3 DEC 58
DELTA 2	SPUTNIK 3	008	USSR	15 MAY	6 APR 60
EPSILON 1	EXPLORER 4	009	US	26 JUL	23 OCT 59
ZETA 1	SCORE	010	US	18 DEC	21 JAN 59
ETA 1	PIONEER 1	110	US	11 OCT	12 OCT 58
THETA 1	PIONEER 3	111	US	6 DEC	7 DEC 58
1959 LAUNCHES					
BETA 1	DISCOVERER 1	013	US	28 FEB	EARLY MAR 59
GAMMA 1	DISCOVERER 2	014	US	13 APR	26 APR 59
DELTA 1	EXPLORER 6	015	US	7 AUG	PRIOR JUL 61
DELTA 2	ROCKET BODY	017	US	7 AUG	PRIOR JUL 61
EPSILON 1	DISCOVERER 5	018	US	13 AUG	28 SEP 59
EPSILON 2	CAPSULE	026	US	13 AUG	11 FEB 61
ZETA 1	DISCOVERER 6	019	US	19 AUG	20 OCT 59
THETA 1	LUNIK 3	021	USSR	4 OCT	MAR 60
KAPPA 1	DISCOVERER 7	024	US	7 NOV	26 NOV 59
LAMBDA 1	DISCOVERER 8	025	US	20 NOV	8 MAR 60
XI 1	LUNIK 2	114	USSR	12 SEP	13 SEP 59*****

# DECAYED OBJECTS (CONTINUED)

OBJECT	CODE NAME	CATALOGUE NUMBER	SOURCE	LAUNCH	DECAY
1960 LAUNCHES					
GAMMA 1	ROCKET BODY	030	US	13 APR	18 AUG 60
GAMMA 3	METAL OBJECT	033	US	13 APR	JUL 60
DELTA 1	DISCOVERER II	032	US	15 APR	26 APR 60
EPSILON 1	SPUTNIK 4	034	USSR	15 MAY	5 SEP 62
EPSILON 2	ROCKET BODY	035	USSR	15 MAY	17 JUL 60
EPSILON 3	NONE	036	USSR	15 MAY	15 OCT 65
EPSILON 4	NONE	037	USSR	15 MAY	PRIOR JUL 61
EPSILON 5	NONE	038	USSR	15 MAY	SEP-OCT 60
EPSILON 6	NONE	039	USSR	15 MAY	24 SEP 60
EPSILON 7	NONE	040	USSR	15 MAY	24 SEP 60
EPSILON 8	NONE	041	USSR	15 MAY	SEP-OCT 60
EPSILON 9	NONE	042	USSR	15 MAY	SEP-OCT 60
ZETA 2	METAL OBJECT	044	US	24 MAY	5 DEC 60
THETA 1	DISCOVERER 13	048	US	10 AUG	14 NOV 60
THETA 1#	CAPSULE	NNA	US	10 AUG	11 AUG 60**
KAPPA 1	DISCOVERER 14	054	US	18 AUG	16 SEP 60
KAPPA 1#	CAPSULE	NNA	US	18 AUG	19 AUG 60**
LAMBDA 1	SPUTNIK 5	055	USSR	19 AUG	20 AUG 60*
LAMBDA 2	ROCKET BODY	056	USSR	19 AUG	23 SEP 60
MU 1	DISCOVERER 15	057	US	13 SEP	18 OCT 60
MU 1#	CAPSULE	NNA	US	13 SEP	15 SEP 60***
OMICRON 1	DISCOVERER 17	061	US	12 NOV	29 DEC 60
OMICRON 1#	CAPSULE	NNA	US	12 NOV	14 NOV 60
RHO 1	SPUTNIK 6	065	USSR	1 DEC	2 DEC 60
RHO 2	ROCKET BODY	066	USSR	1 DEC	2 DEC 60
SIGMA 1#	CAPSULE	NNA	US	7 DEC	10 DEC 60**
SIGMA 1	DISCOVERER 18	067	US	7 DEC	2 APR 61
TAU 1	DISCOVERER 19	068	US	20 DEC	23 JAN 61



# DECAYED OBJECTS

OBJECT	CODE NAME	CATALOGUE NUMBER	SOURCE	LAUNCH	DECAY
1961 LAUNCHES					
BETA 1	SPUTNIK 7	071	USSR	4 FEB	26 FEB 61
BETA 2	ROCKET BODY	072	USSR	4 FEB	12-13 FEB 61
BETA 3	NONE	073	USSR	4 FEB	17 MAR 61
GAMMA 2	ROCKET BODY	076	USSR	12 FEB	18 FEB 61
GAMMA 3	SPUTNIK 8	077	USSR	12 FEB	24 FEB 61
GAMMA 4	NONE	078	USSR	12 FEB	13-18 FEB 61
DELTA 1	EXPLORER 9	081	US	16 FEB	9 APR 64
DELTA 4	NONE	086	US	16 FEB	PRIOR JUL 61
EPSILON 1	DISCOVERER 20	083	US	17 FEB	28 JUL 62
EPSILON 2	NONE	088	US	17 FEB	30 MAR-2 APR 61
EPSILON 3	NONE	089	US	17 FEB	20 APR 61
EPSILON 4	NONE	090	US	17 FEB	31 OCT 61
ZETA 1	DISCOVERER 21	084	US	18 FEB	20 APR 62
ETA 1	TRANSIT 3B & LOFTI	087	US	22 FEB	30 MAR 61
THETA 1	SPUTNIK 9	091	USSR	9 MAR	9 MAR 61 *
THETA 2	NONE	092	USSR	9 MAR	10 MAR 61
THETA 3	NONE	093	USSR	9 MAR	10 MAR 61
THETA 4	NONE	094	USSR	9 MAR	10 MAR 61
IOTA 1	SPUTNIK 10	095	USSR	25 MAR	25 MAR 61
ITOA 2	ROCKET BODY	096	USSR	25 MAR	26 MAR 61
IOTA 3	NONE	097	USSR	25 MAR	26 MAR 61
LAMBDA 1	DISCOVERER 23	100	US	8 APR	16 APR 62
LAMBDA 2	CAPSULE	102	US	8 APR	23 MAY 62
LAMBDA 3	NONE	106	US	8 APR	10 SEP 61
MU 1	VOSTOK 1	103	USSR	12 APR	12 APR 61 ****
MU 2	ROCKET BODY	104	USSR	12 APR	16 APR 61
XI 1#	CAPSULE	NNA	US	16 JUN	18 JUN 61 **
XI 1	DISCOVERER 25	108	US	16 JUN	12 JUL 61
XI 2	NONE	109	US	16 JUN	19 JUN 61

# DECAYED OBJECTS (CONTINUED)

OBJECT	CODE NAME	CATALOGUE NUMBER	SOURCE	LAUNCH	DECAY
1961 LAUNCHES (CONT'D)					
OMICRON 12	METAL OBJECT	359	US	29 JUN	31 AUG 65
OMICRON 25	METAL OBJECT	140	US	29 JUN	30 SEP 62
OMICRON 28	METAL OBJECT	143	US	29 JUN	16 JUN 62
OMICRON 46	METAL OBJECT	171	US	29 JUN	29 JAN 62
OMICRON 62	METAL OBJECT	231	US	29 JUN	13 FEB 65
PI 1	DISCOVERER 26	160	US	7 JUL	5 DEC 61
PI 1#	CAPSULE	NNA	US	8 JUL	9 JUL 61 **
SIGMA 2	METAL OBJECT	164	US	12 JUL	24 JUL 61
TAU 1	VOSTOK 2	168	USSR	6 AUG	7 AUG 61 ****
TAU 2	ROCKET BODY	169	USSR	6 AUG	9 AUG 61
PHI 1	RANGER 1	173	US	23 AUG	30 AUG 61
PHI 2	ROCKET BODY	174	US	23 AUG	3 SEP 61
CHI 1	EXPLORER 13	180	US	25 AUG	28 AUG 61
PSI 1	DISCOVERER 29	181	US	30 AUG	10 SEP 61
PSI 1#	CAPSULE	NIA	US	30 AUG	4 SEP 61
OMEGA 1	DISCOVERER 30	182	US	12 SEP	11 DEC 61
OMEGA 1#	CAPSULE	NNA	US	12 SEP	15 SEP 61 **
OMEGA 2	METAL OBJECT	185	US	12 SEP	18 SEP 61
OMEGA 3	METAL OBJECT	187	US	12 SEP	28 SEP 61
A-ALPHA 1	MA-4	183	US	13 SEP	13 SEP 61 **
A-ALPHA 2	ROCKET BODY	184	US	13 SEP	13 SEP 61
A-BETA 1	DISCOVERER 31	186	US	17 SEP	26 OCT 61
A-GAMMA 1	DISCOVERER 32	189	US	13 OCT	13 NOV 61
A-GAMMA 1	CAPSULE	NNA	US	13 OCT	14 OCT 61 **
A-GAMMA 2	METAL OBJECT	190	US	13 OCT	25 OCT 61 **
A-GAMMA 3	METAL OBJECT	191	US	13 OCT	16 OCT 61
A-DELTA 2		193	US	21 OCT	5 DEC 61
A-EPSILON 1	DISCOVERER 34	197	US	5 NOV	7 DEC 62
A-EPSILON 2	METAL OBJECT	98	US	5 NOV	30 NOV 61
A-EPSILON 3	METAL OBJECT	99	US	5 NOV	9 DEC 61

# DECAYED OBJECTS (CONTINUED)

OBJECT	CODE NAME	CATALOGUE NUMBER	SOURCE	LAUNCH	DECAY
1961 LAUNCHES (CONTINUED)					
A-EPSILON 4	METAL OBJECT	200	US	5 NOV	10 DEC 61
A-EPSILON 5	METAL OBJECT	203	US	5 NOV	12 DEC 61
A-ZETA 1	DISCOVERER 35	201	US	15 NOV	3 DEC 61
A-ZETA 1#	CAPSULE	NNA	US	15 NOV	16 NOV 61 **
A-ZETA 2	METAL OBJECT	207	US	15 NOV	23 NOV 61
A-THETA 1	RANGER 2	206	US	18 NOV	20 NOV 61
A-IOTA 1	MA-5	208	US	29 NOV	29 NOV 61 **
A-IOTA 2	ROCKET BODY	209	US	29 NOV	30 NOV 61
A-KAPPA 1	DISCOVERER 36	213	US	12 DEC	8 MAR 62
A-KAPPA 1#	CAPSULE	NNA	US	12 DEC	16 DEC 61 **
A-KAPPA 2	OSCAR 1	214	US	12 DEC	31 JAN 62
A-KAPPA 3	METAL OBJECT	215	US	12 DEC	19 DEC 61
A-LAMBDA 1		217	US	22 DEC	14 AUG 62
A-LAMBDA 2		218	US	22 DEC	31 DEC 61
A-LAMBDA 3		219	US	22 DEC	9 JAN 62
1962 LAUNCHES					
GAMMA 1	FRIENDSHIP 7	240	US	20 FEB	20 FEB 62 *****
GAMMA 2	ROCKET BODY	241	US	20 FEB	21 FEB 62
DELTA 1		242	US	21 FEB	4 MAR 62
EPSILON 1	DISCOVERER 38	247	US	27 FEB	21 MAR 62
EPSILON 1#	CAPSULE	NNA	US	27 FEB	3 MAR 62 **
EPSILON 2	ROCKET BODY	248	US	27 FEB	3 MAR 62
EPSILON 3	METAL OBJECT	249	US	27 FEB	3 MAR 62
EPSILON 4	METAL OBJECT	251	US	27 FEB	7 MAR 62
ETA 1		256	US	7 MAR	7 JUN 63
ETA 2		258	US	7 MAR	31 MAR 62

# DECAYED OBJECTS (CONTINUED)

OBJECT	CODE NAME	CATALOGUE NUMBER	SOURCE	LAUNCH	DECAY
1962 LAUNCHES (CONT'D)					
ETA 3		259	US	7 MAR	3 NOV 62
THETA 1	COSMOS 1	266	USSR	16 MAR	25 MAY 62
THETA 2	ROCKET BODY	267	USSR	16 MAR	18 JUN 62
IOTA 1	COSMOS 2	269	USSR	6 APR	19-20 AUG 63
IOTA 2	ROCKET BODY	270	USSR	6 APR	6 OCT 62
KAPPA 2		272	US	9 APR	4 MAY 62
LAMBDA 1		276	US	18 APR	28 MAY 62
LAMBDA 2		277	US	18 APR	20 APR 62
LAMBDA 3		278	US	18 APR	21 APR 62
LAMBDA 4		279	US	18 APR	21 APR 62
MU 1	RANGER 4	280	US	23 APR	26 APR 62 *****
NU 1	COSMOS 3	281	USSR	24 APR	17 OCT 62
NU 2	ROCKET BODY	283	USSR	24 APR	5 AUG 62
XI 1	COSMOS 4	287	USSR	26 APR	29 APR 62
XI 2	ROCKET BODY	284	USSR	26 APR	17 JUN 62
XI 3	METAL OBJECT	289	USSR	26 APR	3 MAY 62
PI 1		286	US	26 APR	28 APR 62
RHO 1		290	US	29 APR	26 MAY 62
RHO 2		291	US	29 APR	1 MAY 62
SIGMA 1		292	US	15 MAY	26 NOV 63
SIGMA 2		293	US	15 MAY	3 JUL 62
SIGMA 3		294	US	15 MAY	13 JUL 62
TAU 1	AURORA 7	295	US	24 MAY	24 MAY 62 *****
TAU 2	ROCKET BODY	296	US	24 MAY	25 MAY 62
UPSILON 1	COSMOS 5	297	USSR	28 MAY	2 MAY 63
UPSILON 2	ROCKET BODY	298	USSR	28 MAY	15 DEC 62
PHI 1		302	US	30 MAY	11 JUN 62
PHI 2		303	US	30 MAY	2 JUN 62

# DECAYED OBJECTS (CONTINUED)

OBJECT	CODE NAME	CATALOGUE NUMBER	SOURCE	LAUNCH	DECAY
1962 LAUNCHES (CONT'D)					
CHI 1		304	US	2 JUN	28 JUN 62
CHI 2	OSCAR 2	305	US	2 JUN	21 JUN 62
CHI 3		306	US	2 JUN	6 JUN 62
PSI 1		307	US	17 JUN	18 JUN 62
OMEGA 1		308	US	18 JUN	29-30 OCT 63
OMEGA 2		310	US	18 JUN	12 JUL 62
OMEGA 3		314	US	18 JUN	14 JUL 62
A-BETA 1		315	US	23 JUN	7 JUL 62
A-GAMMA 1		316	US	28 JUN	14 SEP 62
A-DELTA 1	COSMOS 6	338	USSR	30 JUN	8 AUG 62
A-DELTA 2	ROCKET BODY	339	USSR	30 JUN	8 SEP 62
A-ZETA 1		342	US	18 JUL	25 JUL 62
A-ZETA 2		343	US	18 JUL	27 JUL 62
A-ETA 1		344	US	21 JUL	14 AUG 62
A-THETA 1		345	US	28 JUL	24 AUG 62
A-IOTA 1	COSMOS 7	346	USSR	28 JUL	1 AUG 62
A-IOTA 2	ROCKET BODY	347	USSR	28 JUL	21 AUG 62
A-IOTA 3	METAL OBJECT	348	USSR	28 JUL	31 JUL 62
A-IOTA 4	METAL OBJECT	349	USSR	28 JUL	30 JUL 62
A-KAPPA 1		360	US	2 AUG	26 AUG 62
A-KAPPA 2		362	US	2 AUG	8 AUG 62
A-LAMBDA 1		361	US	5 AUG	6 AUG 62
A-MU 1	VOSTOK 3	363	USSR	11 AUG	15 AUG 62 ****
A-MU 2	ROCKET BODY	364	USSR	11 AUG	14 AUG 62
A-NU 1	VOSTOK 4	365	USSR	12 AUG	15 AUG 62 ****
A-NU 2	ROCKET BODY	366	USSR	12 AUG	14 AUG 62
A-XI 1	COSMOS 8	367	USSR	18 AUG	17 AUG 63

# DECAYED OBJECTS (CONTINUED)

OBJECT	CODE NAME	CATALOGUE NUMBER	SOURCE	LAUNCH	DECAY
1962 LAUNCHES (CONT'D)					
A XI 2	ROCKET BODY	368	USSR	18 AUG	19 DEC 62
A PI 1		371	USSR	25 AUG	28 AUG 62
A PI 2		372	USSR	25 AUG	2 SEP 62
A PI 3		373	USSR	25 AUG	31 AUG 62
A PI 4		379	USSR	25 AUG	5 SEP 62
A PI 5		380	USSR	25 AUG	30 AUG 62
A PI 6		376	USSR	25 AUG	6 SEP 62
A PI 7		386	USSR	25 AUG	8 SEP 62
A PI 8		387	USSR	25 AUG	5 SEP 62
A SIGMA 1		377	US	29 AUG	10 SEP 62
A TAU 1		381	USSR	1 SEP	6 SEP 62
A TAU 2		382	USSR	1 SEP	3 SEP 62
A TAU 3		383	USSR	1 SEP	3 SEP-1 OCT 62
A TAU 4		384	USSR	1 SEP	21 SEP 62
A UPSILON 1		385	US	1 SEP	26 OCT 64
A PHI 1		389	USSR	12 SEP	14 SEP 62
A PHI 2		390	USSR	12 SEP	12 SEP 62
A PHI 3		391	USSR	12 SEP	17 SEP 62
A PHI 4		392	USSR	12 SEP	13 SEP 62
A PHI 5		393	USSR	12 SEP	13 SEP 62
A PHI 6		394	USSR	12 SEP	16 SEP 62
A PHI 7		395	USSR	12 SEP	15 SEP 62
A CHI 1		396	US	17 SEP	16 NOV 62
A OMEGA 1		422	USSR	27 SEP	1 OCT 62
A OMEGA 2		423	USSR	27 SEP	22 DEC 62
A OMEGA 3		425	USSR	27 SEP	6 OCT 62
A OMEGA 4		428	USSR	27 SEP	8 OCT 62
A OMEGA 5		429	USSR	27 SEP	4 OCT 62
A OMEGA 6		430	USSR	27 SEP	8 OCT 62

# DECAYED OBJECTS (CONTINUED)

OBJECT	CODE NAME	CATALOGUE NUMBER	SOURCE	LAUNCH	DECAY
1962 LAUNCHES (CONT'D)					
A-OMEGA 7		431	USSR	27 SEP	3 OCT 62
A-OMEGA 8		435	USSR	27 SEP	6 OCT 62
B-BETA 1		427	US	29 SEP	14 OCT 62
B-DELTA 1	SIGMA 7	433	US	3 OCT	3 OCT 62 *****
B-DELTA 2	ROCKET BODY	434	US	3 OCT	4 OCT 62
B-EPSILON 1		436	US	9 OCT	16 NOV 62
B-ZETA 1		437	USSR	17 OCT	21 OCT 62
B-ZETA 2		438	USSR	17 OCT	5 NOV 62
B-THETA 1		441	USSR	20 OCT	18 MAY 64
B-THETA 2		442	USSR	20 OCT	5 JUN 63
B-IOTA 1		443	USSR	24 OCT	29 OCT 62
B-IOTA 2		456	USSR	24 OCT	22 DEC 62
B-IOTA 3		457	USSR	24 OCT	26 FEB 63
B-IOTA 4		458	USSR	24 OCT	29 NOV 62
B-IOTA 5		459	USSR	24 OCT	24 DEC 62
B-IOTA 6		460	USSR	24 OCT	8 DEC 62
B-IOTA 7		482	USSR	24 OCT	10 DEC 62
B-IOTA 8		483	USSR	24 OCT	2 JAN 63
B-IOTA 9		484	USSR	24 OCT	4 DEC 62
B-IOTA 10		485	USSR	24 OCT	10 DEC 62
B-IOTA 11		486	USSR	24 OCT	30 NOV 62
B-IOTA 12		487	USSR	24 OCT	1 DEC 62
B-IOTA 13		491	USSR	24 OCT	25 DEC 62
B-IOTA 14		492	USSR	24 OCT	15 DEC 62
B-IOTA 15		493	USSR	24 OCT	21 DEC 62
B-IOTA 16		494	USSR	24 OCT	17 DEC 62
B-IOTA 17		495	USSR	24 OCT	26 DEC 62
B-IOTA 18		496	USSR	24 OCT	23 DEC 62
B-IOTA 19		497	USSR	24 OCT	26 DEC 62

# DECAYED OBJECTS (CONTINUED)

OBJECT	CODE NAME	CATALOGUE NUMBER	SOURCE	LAUNCH	DECAY
1962 LAUNCHES (CONT'D)					
B-IOTA 20		498	USSR	24 OCT	10 DEC 62
B-IOTA 21		499	USSR	24 OCT	9 DEC 62
B-IOTA 22		500	USSR	24 OCT	28 DEC 62
B-IOTA 23		501	USSR	24 OCT	26 DEC 62
B-IOTA 24		512	USSR	24 OCT	31 DEC 62
B-NU 1		448	USSR	1 NOV	2-3 NOV 62
B-NU 2		449	USSR	1 NOV	3 NOV 62
B-XI 1		451	USSR	4 NOV	5 NOV 62
B-XI 2		452	USSR	4 NOV	8 NOV 62
B-XI 3		454	USSR	4 NOV	19 JAN 63
B-XI 4		488	USSR	4 NOV	25 DEC 62
B-XI 5		489	USSR	4 NOV	27 DEC 62
B-OMICRON 1		453	US	5 NOV	3 DEC 62
B-PI 1		455	US	11 NOV	12 DEC 62
B-RHO 1		481	US	24 NOV	13 DEC 62
B-SIGMA 1		490	US	4 DEC	8 DEC 62
B-TAU 3		507	US	13 DEC	1 JUL 63
B-PHI 1		505	US	14 DEC	8 JAN 63
B-OMEGA 1		517	USSR	22 DEC	30 DEC 62
B-OMEGA 2		518	USSR	22 DEC	22 JAN 63
1963 LAUNCHES					
1963 01A		521	USSR	4 JAN	5 JAN 63
1963 01B		522	USSR	4 JAN	11 JAN 63
1963 01C		524	USSR	4 JAN	11 JAN 63



# DECAYED OBJECTS (CONTINUED)

OBJECT	CODE NAME	CATALOGUE NUMBER	SOURCE	LAUNCH	DECAY
1963 LAUNCHES (CONT'D)					
1963 02A		525	US	7 JAN	24 JAN 63
1963 02B		526	US	7 JAN	16 JAN 63
1963 03B		528	US	16 JAN	8 NOV 63
1963 03C		529	US	16 JAN	31 DEC 63
1963 06A		554	USSR	21 MAR	29 MAR 63
1963 06B		555	USSR	21 MAR	9 APR 63
1963 07A		562	US	1 APR	26 APR 63
1963 08A		563	USSR	2 APR	3 APR 63
1963 09B		565	US	3 APR	24 NOV 63
1963 10A		567	USSR	13 APR	29 AUG 63
1963 10B		568	USSR	13 APR	6 JUL 63
1963 11A		569	USSR	22 APR	27 APR 63
1963 11B		570	USSR	22 APR	1 MAY 63
1963 12A		571	USSR	28 APR	8 MAY 63
1963 12B		572	USSR	28 APR	20 MAY 63
1963 15A		576	US	15 MAY	16 MAY 63 *****
1963 15B		577	US	15 MAY	16 MAY 63
1963 16A		578	US	18 MAY	27 MAY 63
1963 17A		580	USSR	22 MAY	2 JUN 65
1963 17B		581	USSR	22 MAY	26 AUG 63
1963 17C		582	USSR	22 MAY	12 MAY 65
1963 17D		583	USSR	22 MAY	30 AUG 63
1963 17E		584	USSR	22 MAY	25 JUL 63
1963 17F		585	USSR	22 MAY	30 SEP 63
1963 17G		588	USSR	22 MAY	2 APR 64
1963 18A		586	USSR	24 MAY	2 JUN 63
1963 18B		587	USSR	24 MAY	8 JUN 63
1963 19A		590	US	12 JUN	12 JUN 63
1963 20A		591	USSR	14 JUN	19 JUN 63 *****
	ROCKET BODY				
	FAITH 7				
	ROCKET BODY				
	VOSTOK 5				

# DECAYED OBJECTS (CONTINUED)

OBJECT	CODE NAME	CATALOGUE NUMBER	SOURCE	LAUNCH	DECAY
1963 LAUNCHES (CONT'D)					
1963 20B		592	USSR	14 JUN	16 JUN 63
1963 21A		593	US	15 JUN	7 AUG 63
1963 21B	LOFTI 2A	601	US	15 JUN	18 JUL 63
1963 21C	SOLAR RADIATION	599	US	15 JUN	1 AUG 63
1963 21D		600	US	15 JUN	30 JUL 63
1963 21E		598	US	15 JUN	27 JUL 63
1963 21F		597	US	15 JUN	5 JUL 63
1963 21G		617	US	15 JUN	3 JUL 63
1963 23A	VOSTOK 6	595	USSR	16 JUN	19 JUN 63****
1963 23B		596	USSR	16 JUN	18 JUN 63
1963 25A		609	US	27 JUN	26 JUL 63
1963 27B		615	US	29 JUN	14-15 NOV 64
1963 27C		616	US	29 JUN	10 JUL 63
1963 28A		618	US	12 JUL	18 JUL 63
1963 28B		619	US	12 JUL	13 JUL 63
1963 28C		620	US	12 JUL	16 JUL 63
1963 29A		621	US	18 JUL	13 AUG 63
1963 29B		623	US	18 JUL	29 JUL 63
1963 32A		626	US	31 JUL	11 AUG 63
1963 32B		627	US	31 JUL	10 AUG 63
1963 33A		632	USSR	6 AUG	30 MAR 64
1963 33B		633	USSR	6 AUG	8-9 DEC 63
1963 34A		636	US	24 AUG	12 SEP 63
1963 34B		642	US	24 AUG	8 SEP 63
1963 35A		637	US	29 AUG	7 NOV 63
1963 35B		638	US	29 AUG	23-29 SEP 63
1963 35C		639	US	29 AUG	2 SEP 63
1963 35D		640	US	29 AUG	1 SEP 63
1963 36A		641	US	6 SEP	13 SEP 63
1963 36B		663	US	6 SEP	13-14 SEP 63
1963 36C		664	US	6 SEP	10 SEP 63

# DECAYED OBJECTS (CONTINUED)

OBJECT	CODE NAME	CATALOGUE NUMBER	SOURCE	LAUNCH	DECAY
1963 LAUNCHES (CONT'D)					
1963 36D		665	US	6 SEP	8 SEP 63
1963 36E		666	US	6 SEP	10-11 SEP 63
1963 36F		667	US	6 SEP	10 SEP 63
1963 37A		668	US	24 SEP	12 OCT 63
1963 40A		673	USSR	18 OCT	28-29 OCT 63
1963 40B		676	USSR	18 OCT	30-31 OCT 63
1963 41A	COSMOS 20	677	US	25 OCT	29 OCT 63
1963 41B		678	US	25 OCT	28-29 OCT 63
1963 41C		679	US	25 OCT	28-29 OCT 63
1963 41D		680	US	25 OCT	28-29 OCT 63
1963 42A		681	US	29 OCT	21 JAN 64
1963 42B		682	US	29 OCT	23 MAY 65
1963 42C		691	US	29 OCT	27 NOV 63
1963 43C		685	USSR	1 NOV	29 OCT 65
1963 44A	COSMOS 21	687	USSR	11 NOV	14 NOV 63
1963 44B		688	USSR	11 NOV	12 NOV 63
1963 45A	COSMOS 22	689	USSR	16 NOV	22 NOV 63
1963 45B		690	USSR	16 NOV	3 DEC 63
1963 48A		695	US	27 NOV	15 DEC 63
1963 50A	COSMOS 23	707	USSR	13 DEC	27 MAR 64
1963 50B		708	USSR	13 DEC	6 MAR 64
1963 50C		709	USSR	13 DEC	3 JAN 64
1963 50D		710	USSR	13 DEC	1 JAN 64
1963 51A		711	US	18 DEC	20 DEC 63
1963 52A	COSMOS 24	712	USSR	19 DEC	28 DEC 63
1963 52B		713	USSR	19 DEC	25 JAN 64
1963 55A		718	US	21 DEC	8 JAN 64
1963 55B		719	US	21 DEC	7 NOV 64

# DECAYED OBJECTS (CONTINUED)

OBJECT	CODE NAME	CATALOGUE NUMBER	SOURCE	LAUNCH	DECAY
1964 LAUNCHES					
1964 07A	RANGER 6	747	US	30 JAN	2 FEB 64 *****
1964 08A		752	US	15 FEB	9 MAR 64
1964 08B		755	US	15 FEB	21 FEB 64
1964 09A		754	US	25 FEB	1 MAR 64
1964 09B		756	US	25 FEB	26 FEB 64
1964 10A	COSMOS 25	757	USSR	27 FEB	21 NOV 64
1964 10B		758	USSR	27 FEB	18 JUN 64
1964 10C		762	USSR	27 FEB	4 MAR 64
1964 10D		763	USSR	27 FEB	23 APR 64
1964 11B		760	US	28 FEB	17 AUG 65
1964 11C		761	US	28 FEB	21 SEP 65
1964 12A		764	US	11 MAR	16 MAR 64
1964 12B		765	US	11 MAR	12 MAR 64
1964 13A	COSMOS 26	776	USSR	18 MAR	28 SEP 64
1964 13B		767	USSR	18 MAR	17 MAY 64
1964 13C		768	USSR	18 MAR	20-22 APR 64
1964 13D		769	USSR	18 MAR	24-25 MAR 64
1964 14A	COSMOS 27	770	USSR	27 MAR	28 MAR 64
1964 14B		772	USSR	27 MAR	29 MAR 64
1964 14C		773	USSR	27 MAR	30-31 MAR 64
1964 14D		774	USSR	27 MAR	3-4 APR 64
1964 16A		776	USSR	2 APR	3 APR 64
1964 16B		777	USSR	2 APR	2 APR 64
1964 16C		778	USSR	2 APR	5 APR 64
1964 17A	COSMOS 28	779	USSR	4 APR	12 APR 64
1964 17B		780	USSR	4 APR	3 MAY 64
1964 17C		781	USSR	4 APR	6-7 APR 64
1964 18A	GEMINI 1	782	US	8 APR	12 APR 64
1964 19A		783	USSR	12 APR	30 APR-1 MAY 64

# DECAYED OBJECTS (CONTINUED)

OBJECT	CODE NAME	CATALOGUE NUMBER	SOURCE	LAUNCH	DECAY
1964 LAUNCHES (CONT'D)					
1964 20A		786	US	23 APR	28-29 APR 64
1964 20B		787	US	23 APR	26 APR 64
1964 20C		788	US	23 APR	25 APR 64
1964 20D		789	US	23 APR	25 APR 64
1964 20E		790	US	23 APR	25 APR 64
1964 21A	COSMOS 29	791	USSR	25 APR	2 MAY 64
1964 21B		792	USSR	25 APR	11 MAY 64
1964 21C		793	USSR	25 APR	26-27 APR 64
1964 21D		794	USSR	25 APR	27-28 APR 64
1964 21E		795	USSR	25 APR	27 APR 64
1964 22A		796	US	27 APR	26 MAY 64
1964 23A	COSMOS 30	797	USSR	18 MAY	26 MAY 64
1964 23B		798	USSR	18 MAY	7 JUN 64
1964 24A		799	US	19 MAY	22 MAY 64
1964 25A	SATURN 6	800	US	28 MAY	1 JUN 64
1964 27A		802	US	4 JUN	18 JUN 64
1964 28A	COSMOS 31	803	USSR	6 JUN	20 OCT 64
1964 28B		804	USSR	6 JUN	16 AUG 64
1964 29A	COSMOS 32	807	USSR	10 JUN	18 JUN 64
1964 29B		808	USSR	10 JUN	14 JUL 64
1964 29C		810	USSR	10 JUN	12 JUN 64
1964 30A		811	US	13 JUN	2 JUL 64
1964 30B		820	US	13 JUN	7 AUG 64
1964 32A		814	US	19 JUN	16 AUG 64
1964 32B		821	US	19 JUN	2 JUL 64
1964 33A	COSMOS 33	816	USSR	23 JUN	1 JUL 64
1964 33B		817	USSR	23 JUN	10 JUL 64

# DECAYED OBJECTS (CONTINUED)

OBJECT	CODE NAME	CATALOGUE NUMBER	SOURCE	LAUNCH	DECAY
1964 LAUNCHES (CONT'D)					
1964 33C		818	USSR	23 JUN	24 JUN 64
1964 33D		819	USSR	23 JUN	24 JUN 64
1964 34A	COSMOS 34	822	USSR	1 JUL	9 JUL 64
1964 34B		823	USSR	1 JUL	15 JUL 64
1964 36A		825	US	6 JUL	8 JUL 64
1964 36B		826	US	6 JUL	3 JAN 65
1964 36C		827	US	6 JUL	19 JUL 64
1964 37A		828	US	10 JUL	6 AUG 64
1964 39A	COSMOS 35	833	USSR	15 JUL	23 JUL 64
1964 39B		834	USSR	15 JUL	1 AUG 64
1964 39C		835	USSR	15 JUL	31 JUL 64
1964 39D		839	USSR	15 JUL	25 JUL 64
1964 41A	RANGER 7	842	US	28 JUL	31 JUL 64
1964 42A	COSMOS 36	844	USSR	30 JUL	28 FEB 65
1964 42B		845	USSR	30 JUL	29 NOV 64
1964 43A		846	US	5 AUG	31 AUG-1 SEP 64
1964 44A	COSMOS 37	848	USSR	14 AUG	22 SEP 64
1964 44B		849	USSR	14 AUG	3 SEP 64
1964 45A		850	US	14 AUG	23 SEP 64
1964 45C		852	US	14 AUG	16 AUG 64
1964 46A	COSMOS 38	853	USSR	18 AUG	8 NOV 64
1964 46B	COSMOS 39	854	USSR	18 AUG	17 NOV 64
1964 46C	COSMOS 40	855	USSR	18 AUG	18 NOV 64
1964 46D		856	USSR	18 AUG	19 FEB 65
1964 46E		857	USSR	18 AUG	10 SEP 64
1964 46F		859	USSR	18 AUG	6 SEP 64
1964 46G		860	USSR	18 AUG	6 SEP 64

\*\*\*\*\*

# DECAYED OBJECTS (CONTINUED)

OBJECT	CODE NAME	CATALOGUE NUMBER	SOURCE	LAUNCH	DECAY
1964 LAUNCHES (CONT'D)					
1964 48A		861	US	21 AUG	31 MAR 65
1964 49A	COSMOS 41	863	USSR	22 AUG	15 SEP 64
1964 49B		865	USSR	22 AUG	28 SEP 64
1964 49C		868	USSR	22 AUG	30 AUG 64
1964 50A	COSMOS 42	864	USSR	22 AUG	19 DEC 65
1964 50B		866	USSR	22 AUG	2 AUG 65
1964 50C	COSMOS 43	867	USSR	22 AUG	27 DEC 65
1964 55A		880	USSR	13 SEP	18 SEP 64
1964 55B		881	USSR	13 SEP	27 SEP 64
1964 56A		882	US	14 SEP	6 OCT 64
1964 56B		888	US	14 SEP	22 SEP 64
1964 57A	SATURN 7	883	US	18 SEP	22 SEP 64
1964 58A		884	US	23 SEP	28 SEP 64
1964 58B		887	US	23 SEP	26 SEP 64
1964 59A	COSMOS 46	885	USSR	24 SEP	2 OCT 64
1964 59B		886	USSR	24 SEP	7 OCT 64
1964 61A		890	US	5 OCT	26 OCT 64
1964 62A	COSMOS 47	891	USSR	6 OCT	7 OCT 64
1964 62B		892	USSR	6 OCT	13-14 OCT 64
1964 62C		894	USSR	6 OCT	9 OCT 64
1964 62D		895	USSR	6 OCT	12 OCT 64
1964 62E		896	USSR	6 OCT	9 OCT 64
1964 65A	VOSKHOD 1	904	USSR	12 OCT	13 OCT 64
1964 65B		905	USSR	12 OCT	20 OCT 64
1964 65C		906	USSR	12 OCT	13 OCT 64
1964 66A	COSMOS 48	908	USSR	14 OCT	20 OCT 64
1964 66B		909	USSR	14 OCT	28 OCT 64
1964 66C		910	USSR	14 OCT	16 OCT 64
1964 67A		911	US	17 OCT	4 NOV 64

# DECAYED OBJECTS

OBJECT	CODE NAME	CATALOGUE NUMBER	SOURCE	LAUNCH	DECAY
1964 LAUNCHES (CONT'D)					
1964 68A		912	US	23 OCT	28 OCT 64
1964 68B		914	US	23 OCT	23 FEB 65
1964 68C		916	US	23 OCT	3-4 NOV 64
1964 68D		918	US	23 OCT	29 OCT 64
1964 69A		913	USSR	24 OCT	24 AUG 65
1964 69C		917	USSR	24 OCT	17 NOV 64
1964 69B		915	USSR	24 OCT	10 FEB 65
1964 70A	COSMOS 49	919	USSR	28 OCT	5 NOV 64
1964 70B		920	USSR	28 OCT	1-2 NOV 64
1964 70C		928	USSR	28 OCT	13 NOV 64
1964 70D		929	USSR	28 OCT	15 NOV 64
1964 70E		989	USSR	28 OCT	13 NOV 64
1964 70F		990	USSR	28 OCT	11 NOV 64
1964 70G		991	USSR	28 OCT	8 NOV 64
1964 70H		992	USSR	28 OCT	13 NOV 64
1964 70J		993	USSR	28 OCT	12 NOV 64
1964 70K		994	USSR	28 OCT	13 NOV 64
1964 70L		995	USSR	28 OCT	11 NOV 64
1964 70M		996	USSR	28 OCT	12 NOV 64
1964 70N		997	USSR	28 OCT	14 NOV 64
1964 70P		998	USSR	28 OCT	10 NOV 64
1964 70Q		999	USSR	28 OCT	12 NOV 64
1964 70R		1003	USSR	28 OCT	11 NOV 64
1964 70S		1004	USSR	28 OCT	14 NOV 64
1964 70T		1005	USSR	28 OCT	12 NOV 64
1964 70U		1006	USSR	28 OCT	12 NOV 64
1964 70V		1007	USSR	28 OCT	12 NOV 64
1964 70W		1008	USSR	28 OCT	12 NOV 64
1964 70X		1009	USSR	28 OCT	13 NOV 64
1964 70Y		1010	USSR	28 OCT	13 NOV 64



# DECAYED OBJECTS (CONTINUED)

OBJECT	CODE NAME	CATALOGUE NUMBER	SOURCE	LAUNCH	DECAY
1964 LAUNCHES (CONT'D)					
1964 70Z		1011	USSR	28 OCT	9 NOV 64
1964 70AA		1012	USSR	28 OCT	10 NOV 64
1964 70AB		1013	USSR	28 OCT	9 NOV 64
1964 70AC		1014	USSR	28 OCT	17 NOV 64
1964 70AD		1015	USSR	28 OCT	12 NOV 64
1964 70AE		1016	USSR	28 OCT	13 NOV 64
1964 70AF		1017	USSR	28 OCT	11 NOV 64
1964 70AG		1018	USSR	28 OCT	13 NOV 64
1964 70AH		1019	USSR	28 OCT	11 NOV 64
1964 70AJ		1020	USSR	28 OCT	14 NOV 64
1964 70AK		1021	USSR	28 OCT	13 NOV 64
1964 70AL		1022	USSR	28 OCT	12 NOV 64
1964 70AM		1023	USSR	28 OCT	12 NOV 64
1964 70AN		1024	USSR	28 OCT	14 NOV 64
1964 70AP		1025	USSR	28 OCT	13 NOV 64
1964 70AQ		1026	USSR	28 OCT	12 NOV 64
1964 70AR		1027	USSR	28 OCT	12 NOV 64
1964 70AS		1028	USSR	28 OCT	13 NOV 64
1964 70AT		1029	USSR	28 OCT	12 NOV 64
1964 70AU		1030	USSR	28 OCT	13 NOV 64
1964 70AV		1031	USSR	28 OCT	13 NOV 64
1964 70AW		1032	USSR	28 OCT	16 NOV 64
1964 70AX		1033	USSR	28 OCT	11 NOV 64
1964 70AY		1034	USSR	28 OCT	9 NOV 64
1964 70AZ		1035	USSR	28 OCT	13 NOV 64
1964 70BA		1036	USSR	28 OCT	12 NOV 64
1964 70BB		1037	USSR	28 OCT	12 NOV 64
1964 70BC		1038	USSR	28 OCT	15 NOV 64
1964 70BD		1039	USSR	28 OCT	13 NOV 64

# DECAYED OBJECTS (CONTINUED)

OBJECT	CODE NAME	CATALOGUE NUMBER	SOURCE	LAUNCH	DECAY
1964 LAUNCHES (CONT'D)					
1964 70BE		1040	USSR	28 OCT	13 NOV 64
1964 70BF		1041	USSR	28 OCT	12 NOV 64
1964 70BG		1042	USSR	28 OCT	13 NOV 64
1964 70BH		1043	USSR	28 OCT	12 NOV 64
1964 70BJ		1044	USSR	28 OCT	17 NOV 64
1964 70BK		1045	USSR	28 OCT	17 NOV 64
1964 70BL		1046	USSR	28 OCT	12 NOV 64
1964 70BM		1047	USSR	28 OCT	11 NOV 64
1964 70BN		1048	USSR	28 OCT	14 NOV 64
1964 70BP		1049	USSR	28 OCT	15 NOV 64
1964 70BQ		1050	USSR	28 OCT	14 NOV 64
1964 70BR		1051	USSR	28 OCT	12 NOV 64
1964 70BS		1052	USSR	28 OCT	13 NOV 64
1964 70BT		1053	USSR	28 OCT	13 NOV 64
1964 70BU		1054	USSR	28 OCT	13 NOV 64
1964 70BV		1055	USSR	28 OCT	11 NOV 64
1964 70BW		1056	USSR	28 OCT	13 NOV 64
1964 70BX		1057	USSR	28 OCT	12 NOV 64
1964 70BY		1058	USSR	28 OCT	13 NOV 64
1964 70BZ		1059	USSR	28 OCT	11 NOV 64
1964 70CA		1060	USSR	28 OCT	10 NOV 64
1964 70CB		1061	USSR	28 OCT	9 NOV 64
1964 70CC		1062	USSR	28 OCT	16 NOV 64
1964 70CD		1063	USSR	28 OCT	11 NOV 64
1964 70CE		1064	USSR	28 OCT	15 NOV 64
1964 70CF		1065	USSR	28 OCT	17 NOV 64
1964 70CG		1066	USSR	28 OCT	11 NOV 64

# DECAYED OBJECTS (CONTINUED)

OBJECT	CODE NAME	CATALOGUE NUMBER	SOURCE	LAUNCH	DECAY
1964 LAUNCHES (CONT'D)					
1964 70CH		1067	USSR	28 OCT	17 NOV 64
1964 70CJ		1068	USSR	28 OCT	14 NOV 64
1964 70CK		1069	USSR	28 OCT	16 NOV 64
1964 70CL		1070	USSR	28 OCT	13 NOV 64
1964 70CM		1071	USSR	28 OCT	12 NOV 64
1964 70CN		1072	USSR	28 OCT	10 NOV 64
1964 70CP		1073	USSR	28 OCT	12 NOV 64
1964 70CQ		1074	USSR	28 OCT	13 NOV 64
1964 70CR		1075	USSR	28 OCT	13 NOV 64
1964 70CS		1076	USSR	28 OCT	13 NOV 64
1964 70CT		1077	USSR	28 OCT	14 NOV 64
1964 70CU		1078	USSR	28 OCT	12 NOV 64
1964 70CV		1079	USSR	28 OCT	12 NOV 64
1964 70CW		1080	USSR	28 OCT	17 NOV 64
1964 70CX		1081	USSR	28 OCT	11 NOV 64
1964 70CY		1082	USSR	28 OCT	11 NOV 64
1964 70CZ		1083	USSR	28 OCT	11 NOV 64
1964 70DA		1084	USSR	28 OCT	11 NOV 64
1964 71A		921	US	2 NOV	28 NOV 64
1964 75B		930	US	18 NOV	6 DEC 64
1964 78A		943	USSR	30 NOV	1 DEC 64
1964 78B		944	USSR	30 NOV	2 DEC 64
1964 79A		946	US	4 DEC	5 DEC 64
1964 80A	COSMOS 51	947	USSR	9 DEC	14 NOV 65
1964 80B		948	USSR	9 DEC	11 MAY 65
1964 80C		950	USSR	9 DEC	29 DEC 64
1964 80D		952	USSR	9 DEC	1 JAN 65
1964 80E		954	USSR	9 DEC	1 JAN 65

# DECAYED OBJECTS (CONTINUED)

OBJECT	CODE NAME	CATALOGUE NUMBER	SOURCE	LAUNCH	DECAY
1964 LAUNCHES (CONT'D)					
1964 80F		955	USSR	9 DEC	2 JAN 65
1964 81A		949	US	10 DEC	13 DEC 64
1964 82A	CENTUAR 4	951	US	11 DEC	12 DEC 64
1964 84A	SAN MARCO 1	957	ITALY	15 DEC	13 SEP 65
1964 84B		958	US	15 DEC	6-7 FEB 65
1964 84C		962	US	15 DEC	21 JAN 65
1964 85A		961	US	19 DEC	14 JAN 65
1964 87A		964	US	21 DEC	11 JAN 65
1965 LAUNCHES					
1965 01A	COSMOS 52	968	USSR	11 JAN	19 JAN 65
1965 01B		969	USSR	11 JAN	29 JAN 65
1965 01C		970	USSR	11 JAN	13-14 JAN 65
1965 01D		971	USSR	11 JAN	13-14 JAN 65
1965 02A		972	US	15 JAN	9 FEB 65
1965 02B		982	US	15 JAN	30 JAN 65
1965 03B		974	US	19 JAN	17 JUN 65
1965 03C		975	US	19 JAN	9 JUL 65
1965 05A		980	US	23 JAN	28-29 JAN 65
1965 05B		981	US	23 JAN	25 JAN 65
1965 06B		984	USSR	30 JAN	11 JAN 66
1965 06C		985	USSR	30 JAN	4-5 MAR 65
1965 06D		986	USSR	30 JAN	4 MAR 65
1965 10A	RANGER 8	1086	US	17 FEB	20 FEB 65 *****
1965 12A	COSMOS 57	1093	USSR	22 FEB	22 FEB 65
1965 12B		1095	USSR	22 FEB	5-6 MAR 65
1965 12C		1100	USSR	22 FEB	9 MAR 65

# DECAYED OBJECTS

OBJECT	CODE NAME	CATALOGUE NUMBER	SOURCE	LAUNCH	DECAY
1965 LAUNCHES (CONT'D)					
1965 12D		1101	USSR	22 FEB	25 FEB 65
1965 12E		1102	USSR	22 FEB	26 FEB 65
1965 12F		1103	USSR	22 FEB	2 MAR 65
1965 12G		1104	USSR	22 FEB	10 MAR 65
1965 12H		1105	USSR	22 FEB	25 FEB 65
1965 12J		1106	USSR	22 FEB	2 MAR 65
1965 12K		1107	USSR	22 FEB	25 MAR 65
1965 12L		1108	USSR	22 FEB	1 MAR 65
1965 12M		1109	USSR	22 FEB	26 FEB 65
1965 12N		1110	USSR	22 FEB	27 FEB 65
1965 12P		1111	USSR	22 FEB	2 MAR 65
1965 12Q		1112	USSR	22 FEB	1 MAR 65
1965 12R		1113	USSR	22 FEB	25 FEB 65
1965 12S		1114	USSR	22 FEB	3 MAR 65
1965 12T		1115	USSR	22 FEB	27 FEB 65
1965 12U		1116	USSR	22 FEB	4 MAR 65
1965 12V		1117	USSR	22 FEB	2 MAR 65
1965 12W		1118	USSR	22 FEB	1 MAR 65
1965 12X		1119	USSR	22 FEB	1 MAR 65
1965 12Y		1120	USSR	22 FEB	2 MAR 65
1965 12Z		1121	USSR	22 FEB	1 MAR 65
1965 12AA		1122	USSR	22 FEB	1 MAR 65
1965 12AB		1123	USSR	22 FEB	27 FEB 65
1965 12AC		1124	USSR	22 FEB	2 MAR 65
1965 12AD		1125	USSR	22 FEB	2 MAR 65
1965 12AE		1126	USSR	22 FEB	1 MAR 65
1965 12AF		1127	USSR	22 FEB	28 FEB 65
1965 12AG		1128	USSR	22 FEB	5 MAR 65
1965 12AH		1129	USSR	22 FEB	5 MAR 65
1965 12AJ		1130	USSR	22 FEB	11 MAR 65

# DECAYED OBJECTS

OBJECT	CODE NAME	CATALOGUE NUMBER	SOURCE	LAUNCH	DECAY
1965 LAUNCHES (CONT'D)					
1965 12AK		1131	USSR	22 FEB	7 MAR 65
1965 12AL		1132	USSR	22 FEB	7 MAR 65
1965 12AM		1133	USSR	22 FEB	21 MAR 65
1965 12AN		1134	USSR	22 FEB	19 MAR 65
1965 12AP		1135	USSR	22 FEB	13 MAR 65
1965 12AQ		1136	USSR	22 FEB	17 MAR 65
1965 12AR		1137	USSR	22 FEB	9 MAR 65
1965 12AS		1138	USSR	22 FEB	8 MAR 65
1965 12AT		1139	USSR	22 FEB	10 MAR 65
1965 12AU		1140	USSR	22 FEB	25 MAR 65
1965 12AV		1141	USSR	22 FEB	10 MAR 65
1965 12AW		1142	USSR	22 FEB	14 MAR 65
1965 12AX		1143	USSR	22 FEB	20 MAR 65
1965 12AY		1144	USSR	22 FEB	21 MAR 65
1965 12AZ		1145	USSR	22 FEB	21 MAR 65
1965 12BA		1146	USSR	22 FEB	17 MAR 65
1965 12BB		1147	USSR	22 FEB	17 MAR 65
1965 12BC		1148	USSR	22 FEB	11 MAR 65
1965 12BD		1149	USSR	22 FEB	19 MAR 65
1965 12BE		1150	USSR	22 FEB	17 MAR 65
1965 12BF		1151	USSR	22 FEB	10 MAR 65
1965 12BG		1152	USSR	22 FEB	16 MAR 65
1965 12BH		1153	USSR	22 FEB	7 MAR 65
1965 12BJ		1154	USSR	22 FEB	7 MAR 65
1965 12BK		1155	USSR	22 FEB	7 MAR 65

# DECAYED OBJECTS

OBJECT	CODE NAME	CATALOGUE NUMBER	SOURCE	LAUNCH	DECAY
1965 LAUNCHES (CONT'D)					
1965 12BL		1156	USSR	22 FEB	18 MAR 65
1965 12BM		1157	USSR	22 FEB	13 MAR 65
1965 12BN		1158	USSR	22 FEB	4 MAR 65
1965 12BP		1159	USSR	22 FEB	18 MAR 65
1965 12BQ		1160	USSR	22 FEB	4 MAR 65
1965 12BR		1161	USSR	22 FEB	5 MAR 65
1965 12BS		1162	USSR	22 FEB	25 MAR 65
1965 12BT		1163	USSR	22 FEB	5 MAR 65
1965 12BU		1164	USSR	22 FEB	13 MAR 65
1965 12BV		1165	USSR	22 FEB	9 MAR 65
1965 12BW		1166	USSR	22 FEB	7 MAR 65
1965 12BX		1167	USSR	22 FEB	20 MAR 65
1965 12BY		1168	USSR	22 FEB	6 MAR 65
1965 12BZ		1169	USSR	22 FEB	5 MAR 65
1965 12CA		1170	USSR	22 FEB	4 MAR 65
1965 12CB		1171	USSR	22 FEB	5 MAR 65
1965 12CC		1172	USSR	22 FEB	5 MAR 65
1965 12CD		1173	USSR	22 FEB	4 MAR 65
1965 12CE		1174	USSR	22 FEB	22 MAR 65
1965 12CF		1175	USSR	22 FEB	5 MAR 65
1965 12CG		1176	USSR	22 FEB	5 MAR 65
1965 12CH		1177	USSR	22 FEB	27 MAR 65
1965 12CJ		1178	USSR	22 FEB	5 MAR 65
1965 12CK		1179	USSR	22 FEB	16 MAR 65
1965 12CL		1180	USSR	22 FEB	4 MAR 65

# DECAYED OBJECTS (CONTINUED)

OBJECT	CODE NAME	CATALOGUE NUMBER	SOURCE	LAUNCH	DECAY
1965 LAUNCHES (CONT'D)					
1965 12CM		1181	USSR	22 FEB	6 MAR 65
1965 12CN		1182	USSR	22 FEB	7 MAR 65
1965 12CP		1183	USSR	22 FEB	8 MAR 65
1965 12CQ		1184	USSR	22 FEB	7 MAR 65
1965 12CR		1185	USSR	22 FEB	11 MAR 65
1965 12CS		1186	USSR	22 FEB	1 MAR 65
1965 12CT		1187	USSR	22 FEB	1 MAR 65
1965 12CU		1188	USSR	22 FEB	1 MAR 65
1965 12CV		1189	USSR	22 FEB	1 MAR 65
1965 12CW		1190	USSR	22 FEB	1 MAR 65
1965 12CX		1194	USSR	22 FEB	16 MAR 65
1965 12CY		1195	USSR	22 FEB	9 MAR 65
1965 12CZ		1196	USSR	22 FEB	9 MAR 65
1965 12DA		1197	USSR	22 FEB	21 MAR 65
1965 12DB		1198	USSR	22 FEB	4 MAR 65
1965 12DC		1199	USSR	22 FEB	17 MAR 65
1965 12DD		1200	USSR	22 FEB	11 MAR 65
1965 12DE		1201	USSR	22 FEB	4 MAR 65
1965 12DF		1202	USSR	22 FEB	9 MAR 65
1965 12DG		1203	USSR	22 FEB	14 MAR 65
1965 12DH		1204	USSR	22 FEB	15 MAR 65
1965 12DJ		1205	USSR	22 FEB	16 MAR 65
1965 12DK		1206	USSR	22 FEB	9 MAR 65
1965 12DL		1209	USSR	22 FEB	11 MAR 65
1965 12DM		1210	USSR	22 FEB	4 MAR 65



# DECAYED OBJECTS (CONTINUED)

OBJECT	CODE NAME	CATALOGUE NUMBER	SOURCE	LAUNCH	DECAY
1965 LAUNCHES (CONT'D)					
1965 12DN		1211	USSR	22 FEB	16 MAR 65
1965 12DP		1212	USSR	22 FEB	12 MAR 65
1965 12DQ		1213	USSR	22 FEB	14 MAR 65
1965 12DR		1214	USSR	22 FEB	20 MAR 65
1965 12DS		1215	USSR	22 FEB	16 MAR 65
1965 12DT		1216	USSR	22 FEB	17 MAR 65
1965 12DU		1217	USSR	22 FEB	28 MAR 65
1965 12DV		1218	USSR	22 FEB	20 MAR 65
1965 12DW		1219	USSR	22 FEB	14 MAR 65
1965 12DX		1220	USSR	22 FEB	12 MAR 65
1965 12DY		1221	USSR	22 FEB	18 MAR 65
1965 12DZ		1222	USSR	22 FEB	12 MAR 65
1965 12EA		1223	USSR	22 FEB	31 MAR 65
1965 12EB		1224	USSR	22 FEB	16 MAR 65
1965 12EC		1225	USSR	22 FEB	14 MAR 65
1965 12ED		1226	USSR	22 FEB	18 MAR 65
1965 12EE		1227	USSR	22 FEB	11 MAR 65
1965 12EF		1229	USSR	22 FEB	29 MAR 65
1965 12EG		1230	USSR	22 FEB	13 MAR 65
1965 12EH		1231	USSR	22 FEB	17 MAR 65
1965 12EJ		1232	USSR	22 FEB	24 MAR 65
1965 12EK		1233	USSR	22 FEB	20 MAR 65
1965 12EL		1234	USSR	22 FEB	20 MAR 65
1965 12EM		1235	USSR	22 FEB	17 MAR 65
1965 12EN		1236	USSR	22 FEB	17 MAR 65

# DECAYED OBJECTS (CONTINUED)

OBJECT	CODE NAME	CATALOGUE NUMBER	SOURCE	LAUNCH	DECAY
1965 LAUNCHES (CONT'D)					
1965 12EP		1237	USSR	22 FEB	20 MAR 65
1965 12EQ		1238	USSR	22 FEB	17 MAR 65
1965 12ER		1239	USSR	22 FEB	29 MAR 65
1965 12ES		1240	USSR	22 FEB	17 MAR 65
1965 12ET		1241	USSR	22 FEB	17 MAR 65
1965 12EU		1242	USSR	22 FEB	24 MAR 65
1965 12EV		1243	USSR	22 FEB	17 MAR 65
1965 12EW		1254	USSR	22 FEB	12 MAR 65
1965 12EX		1255	USSR	22 FEB	20 MAR 65
1965 12EY		1256	USSR	22 FEB	21 MAR 65
1965 12EZ		1257	USSR	22 FEB	21 MAR 65
1965 12FA		1258	USSR	22 FEB	17 MAR 65
1965 12FB		1261	USSR	22 FEB	6 APR 65
1965 12FC		1262	USSR	22 FEB	15 MAR 65
1965 12FD		1263	USSR	22 FEB	21 MAR 65
1965 12FE		1264	USSR	22 FEB	26 MAR 65
1965 12FF		1265	USSR	22 FEB	15 MAR 65
1965 12FG		1266	USSR	22 FEB	6 MAR 65
1965 12FH		1275	USSR	22 FEB	21 MAR 65
1965 12FJ		1276	USSR	22 FEB	20 MAR 65
1965 12FK		1277	USSR	22 FEB	20 MAR 65
1965 12FL		1278	USSR	22 FEB	22 MAR 65
1965 12FM		1279	USSR	22 FEB	31 MAR 65
1965 12FN		1280	USSR	22 FEB	24 MAR 65
1965 12FP		1281	USSR	22 FEB	19 MAR 65

# DECAYED OBJECTS (CONTINUED)

OBJECT	CODE NAME	CATALOGUE NUMBER	SOURCE	LAUNCH	DECAY
1965 LAUNCHES (CONT'D)					
1965 12FQ		1282	USSR	22 FEB	21 MAR 65
1965 12FR		1283	USSR	22 FEB	23 MAR 65
1965 12FS		1284	USSR	22 FEB	19 MAR 65
1965 12FT		1295	USSR	22 FEB	20 MAR 65
1965 12FU		1296	USSR	22 FEB	15 MAR 65
1965 12FV		1297	USSR	22 FEB	22 MAR 65
1965 12FW		1299	USSR	22 FEB	20 MAR 65
1965 12FX		1300	USSR	22 FEB	23 MAR 65
1965 12FY		1304	USSR	22 FEB	28 MAR 65
1965 12FZ		1309	USSR	22 FEB	28 MAR 65
1965 13A		1096	US	25 FEB	18 MAR 65
1965 13B		1193	US	25 FEB	10-11 MAR 65
1965 15A	COSMOS 59	1191	USSR	7 MAR	15 MAR 65
1965 15B		1192	USSR	7 MAR	19 MAR 65
1965 15C		1207	USSR	7 MAR	10-11 MAR 65
1965 17A		1303	US	11 MAR	14 JUN 65
1965 17E		1251	US	11 MAR	1 AUG 65
1965 17F		1249	US	11 MAR	10 SEP 65
1965 17G		1319	US	11 MAR	28 JUN 65
1965 17H		1323	US	11 MAR	23 DEC 65
1965 18A	COSMOS 60	1246	USSR	12 MAR	17 MAR 65
1965 18B		1252	USSR	12 MAR	16-17 MAR 65
1965 18C		1253	USSR	12 MAR	15 MAR 65
1965 19A		1247	US	12 MAR	17 MAR 65
1965 19B		1259	US	12 MAR	16 MAR 65
1965 19C		1260	US	12 MAR	21 MAR 65
1965 20V		1350	USSR	15 MAR	19 DEC 65

# DECAYED OBJECTS (CONTINUED)

OBJECT	CODE NAME	CATALOGUE NUMBER	SOURCE	LAUNCH	DECAY
1965 LAUNCHES (CONT'D)					
1965 20AB		1356	USSR	15 MAR	14 AUG 65
1965 20AG		1375	USSR	15 MAR	14 OCT 65
1965 20AL		1400	USSR	15 MAR	5 OCT 65
1965 20AP		1403	USSR	15 MAR	3 DEC 65
1965 20AT		1417	USSR	15 MAR	9 SEP 65
1965 20AU		1418	USSR	15 MAR	10 AUG 65
1965 20AX		1437	USSR	15 MAR	28 OCT 65
1965 20AV		1419	USSR	15 MAR	1 SEP 65
1965 20BG		1482	USSR	15 MAR	9 JAN 66
1965 20BQ		1490	USSR	15 MAR	3 JAN 66
1965 20BS		1492	USSR	15 MAR	23 NOV 65
1965 20BU		1494	USSR	15 MAR	4 SEP 65
1965 20CC		1532	USSR	15 MAR	11 JAN 66
1965 20CD		1533	USSR	15 MAR	27 DEC 65
1965 20CF		1535	USSR	15 MAR	14 DEC 65
1965 20DG		1560	USSR	15 MAR	13 OCT 65
1965 21B		1288	US	18 MAR	5 OCT 65
1965 21D		1290	US	18 MAR	1 OCT 65
1965 22A	VOSKHOD 2	1274	USSR	18 MAR	19 MAR 65
1965 22B		1285	USSR	18 MAR	27 MAR 65
1965 22C		1286	USSR	18 MAR	25 MAR 65
1965 22D		1287	USSR	18 MAR	19 MAR 65
1965 23A	RANGER 9	1294	US	21 MAR	24 MAR 65
1965 24A	GT-3	1301	US	23 MAR	23 MAR 65 *****
1965 24B		1302	US	23 MAR	24 MAR 65
1965 25A	COSMOS 64	1305	USSR	25 MAR	2 APR 65
1965 25B		1306	USSR	25 MAR	4 APR 65
1965 25C		1308	USSR	25 MAR	26 APR 65
1965 26A		1307	US	25 MAR	4-5 APR 65
1965 29A	COSMOS 65	1320	USSR	17 APR	25 APR 65
1965 29B	ROCKET BODY	1321	USSR	17 APR	6 MAY 65
1965 29C		1322	USSR	17 APR	20 APR 65

CATALOGUE  
NUMBER

7 JUN 65 \*\*\*\*\*  
5 JUN 65

# DECAYED OBJECTS (CONTINUED)

OBJECT	CODE NAME	CATALOGUE NUMBER	SOURCE	LAUNCH	DECAY
1965 LAUNCHES (CONT'D)					
1965 44B		1394	USSR	8 JUN	12 JUN 65
1965 44C		1395	USSR	8 JUN	10 JUN 65
1965 45A		1396	US	9 JUN	22 JUN 65
1965 45B		1414	US	9 JUN	20 JUN 65
1965 46A	COSMOS 68	1404	USSR	15 JUN	23 JUN 65
1965 46B		1405	USSR	15 JUN	7 JUL 65
1965 46C		1406	USSR	15 JUN	20 JUN 65
1965 46D		1407	USSR	15 JUN	19 JUN 65
1965 46E		1408	USSR	15 JUN	19 JUN 65
1965 47A		1412	US	18 JUN	29 JUN 65
1965 47B		1413	US	18 JUN	21 JUN 65
1965 49A	COSMOS 69	1421	USSR	25 JUN	3 JUL 65
1965 49B		1423	USSR	25 JUN	6 JUL 65
1965 49C		1429	USSR	25 JUN	30 JUN 65
1965 50B		1424	US	25 JUN	30 JUN 65
1965 50C		1426	US	25 JUN	27 JUN 65
1965 50D		1427	US	25 JUN	26 NOV 65
1965 52C		1434	USSR	2 JUL	13 AUG 65
1965 54A	PROTON 1	1466	USSR	16 JUL	11 OCT 65
1965 54B		1451	USSR	16 JUL	18 SEP 65
1965 54C		1450	USSR	16 JUL	24 JUL 65
1965 54D		1446	USSR	16 JUL	31 JUL 65
1965 56B		1453	USSR	18 JUL	20 JUL 65
1965 56C		1456	USSR	18 JUL	21 JUL 65
1965 57A		1457	US	19 JUL	18 AUG 65
1965 59B		1465	USSR	23 JUL	4 DEC 65
1965 61A	COSMOS 77	1469	USSR	3 AUG	11 AUG 65
1965 61B		1470	USSR	3 AUG	8 AUG 65
1965 62A		1471	US	3 AUG	7 AUG 65

# DECAYED OBJECTS (CONTINUED)

OBJECT	CODE NAME	CATALOGUE NUMBER	SOURCE	LAUNCH	DECAY
1965 LAUNCHES (CONT'D)					
1965 62C		1474	US	3 AUG	6 AUG 65
1965 66A	COSMOS 78	1505	USSR	14 AUG	22 AUG 65
1965 66B		1507	USSR	14 AUG	3 SEP 65
1965 66C		1509	USSR	14 AUG	17 AUG 65
1965 67A		1513	US	17 AUG	11 OCT 65
1965 68A	GT-5	1516	US	21 AUG	29 AUG 65 *****
1965 68C		1518	US	21 AUG	27 AUG 65
1965 68D		1519	US	21 AUG	26 AUG 65
1965 69A	COSMOS 79	1523	USSR	25 AUG	7 SEP 65
1965 69B		1524	USSR	25 AUG	7 SEP 65
1965 69C		1525	USSR	25 AUG	26 AUG 65
1965 69D		1526	USSR	25 AUG	31 AUG 65
1965 69E		1527	USSR	25 AUG	31 AUG 65
1965 71A	COSMOS 85	1528	USSR	9 SEP	17 SEP 65
1965 71B		1579	USSR	9 SEP	18 SEP 65
1965 74A		1602	US	22 SEP	11 OCT 65
1965 75A	COSMOS 91	1603	USSR	23 SEP	1 OCT 65
1965 75B		1604	USSR	23 SEP	4 OCT 65
1965 75C		1605	USSR	23 SEP	29 SEP 65
1965 75D		1606	USSR	23 SEP	29 SEP 65
1965 75E		1607	USSR	23 SEP	29 SEP 65
1965 76A		1609	US	30 SEP	5 OCT 65
1965 76B		1614	US	30 SEP	3 OCT 65

# DECAYED OBJECTS (CONTINUED)

OBJECT	CODE NAME	CATALOGUE NUMBER	SOURCE	LAUNCH	DECAY
1965 LAUNCHES (CONT'D)					
1965 77A	LUNA 7	1610	USSR	4 OCT	7 OCT 65*****
1965 77B		1611	USSR	4 OCT	4 OCT 65
1965 77C		1612	USSR	4 OCT	5 OCT 65
1965 79A		1615	US	5 OCT	29 OCT 65
1965 80B	COSMOS 92	1619	USSR	13 OCT	8 NOV 65
1965 80C		1622	USSR	13 OCT	22 OCT 65
1965 80D		1623	USSR	13 OCT	16 NOV 65
1965 83A		1626	USSR	16 OCT	24 OCT 65
1965 83B	COSMOS 93	1627	USSR	16 OCT	29 OCT 65
1965 83C		1628	USSR	16 OCT	25 OCT 65
1965 84A		1629	USSR	19 OCT	3 JAN 66
1965 84B		1630	USSR	19 OCT	17 NOV 65
1965 84C	COSMOS 94	1631	USSR	19 OCT	25 OCT 65
1965 84D		1632	USSR	19 OCT	26 OCT 65
1965 85A		1636	USSR	28 OCT	5 NOV 65
1965 85B		1638	USSR	28 OCT	3 NOV 65
1965 86A		1637	US	28 OCT	17 NOV 65
1965 86B		1639	US	28 OCT	1 NOV 65
1965 87B		1702	USSR	2 NOV	4 JAN 66
1965 87C		1703	USSR	2 NOV	16 NOV 65
1965 87D		1704	USSR	2 NOV	8 NOV 65
1965 87E		1705	USSR	2 NOV	8 NOV 65
1965 88B		1707	USSR	4 NOV	28 NOV 65
1965 88C		1708	USSR	4 NOV	11 NOV 65
1965 88D		1740	USSR	4 NOV	6 JAN 66
1965 88E		1741	USSR	4 NOV	13 DEC 65
1965 88F		1784	USSR	4 NOV	11 NOV 65



# DECAYED OBJECTS (CONTINUED)

OBJECT	CODE NAME	CATALOGUE NUMBER	SOURCE	LAUNCH	DECAY
1965 LAUNCHES (CONT'D)					
1965 88G		1785	USSR	4 NOV	16 NOV 65
1965 88H		1786	USSR	4 NOV	9 NOV 65
1965 88J		1787	USSR	4 NOV	9 NOV 65
1965 88K		1788	USSR	4 NOV	19 NOV 65
1965 88L		1789	USSR	4 NOV	28 NOV 65
1965 88M		1790	USSR	4 NOV	12 NOV 65
1965 88N		1791	USSR	4 NOV	7 NOV 65
1965 88P		1792	USSR	4 NOV	16 NOV 65
1965 88Q		1793	USSR	4 NOV	7 NOV 65
1965 88R		1794	USSR	4 NOV	28 NOV 65
1965 88S		1795	USSR	4 NOV	8 NOV 65
1965 88T		1796	USSR	4 NOV	15 NOV 65
1965 88U		1797	USSR	4 NOV	11 NOV 65
1965 88V		1798	USSR	4 NOV	28 NOV 65
1965 88W		1799	USSR	4 NOV	28 NOV 65
1965 88X		1800	USSR	4 NOV	28 NOV 65
1965 88Y		1801	USSR	4 NOV	26 NOV 65
1965 88Z		1802	USSR	4 NOV	28 NOV 65
1965 90A		1727	US	8 NOV	11 NOV 65
1965 90B		1728	US	8 NOV	9 NOV 65
1965 91B		1731	USSR	12 NOV	17 NOV 65
1965 91C		1732	USSR	12 NOV	25 NOV 65
1965 92B		1734	USSR	16 NOV	26 NOV 65
1965 92C		1735	USSR	16 NOV	3 DEC 65
1965 92E		1737	USSR	16 NOV	16 NOV 65
1965 94A	COSMOS 96	1742	USSR	23 NOV	9 DEC 65
1965 94B		1743	USSR	23 NOV	4 DEC 65

# DECAYED OBJECTS (CONTINUED)

OBJECT	CODE NAME	CATALOGUE NUMBER	SOURCE	LAUNCH	DECAY
1965 LAUNCHES (CONT'D)					
1965 94C		1771	USSR	23 NOV	28 NOV 65
1965 94D		1772	USSR	23 NOV	28 NOV 65
1965 94E		1773	USSR	23 NOV	29 NOV 65
1965 94F		1774	USSR	23 NOV	28 NOV 65
1965 94G		1775	USSR	23 NOV	8 DEC 65
1965 94H		1776	USSR	23 NOV	8 DEC 65
1965 97A	COSMOS 98	1780	USSR	27 NOV	5 DEC 65
1965 97C		1803	USSR	27 NOV	8 DEC 65
1965 99A	LUNA 8	1810	USSR	3 DEC	6 DEC 65*****
1965 99B		1809	USSR	3 DEC	5 DEC 65
1965 99C		1811	USSR	3 DEC	6 DEC 65
1965 100A	GT-7	1812	US	4 DEC	18 DEC 65*****
1965 100B		1813	US	4 DEC	7 DEC 65
1965 102A		1816	US	9 DEC	26 DEC 65
1965 102B		1838	US	9 DEC	15 DEC 65
1965 103A	COSMOS 99	1817	USSR	10 DEC	18 DEC 65
1965 103B		1818	USSR	10 DEC	28 DEC 65
1965 104A		1839	US	15 DEC	16 DEC 65*****
1965 104B	GT-6	1840	US	15 DEC	16 DEC 65
1965 110B		1901	US	24 DEC	6 JAN 66
1965 111A	COSMOS 102	1867	USSR	27 DEC	13 JAN 66
1966 01A	COSMOS 104	1903	USSR	7 JAN	15 JAN 66
1966 01C		1905	USSR	7 JAN	12 JAN 66

\* USSR ANNOUNCED SUCCESSFUL RE-ENTRY AND RECOVERY  
\*\* SUCCESSFUL RE-ENTRY AND RECOVERY  
\*\*\* SUCCESSFUL RE-ENTRY, BUT NOT RECOVERY  
\*\*\*\* USSR ANNOUNCED SUCCESSFUL RE-ENTRY AND RECOVERY OF MANNED SPACE VEHICLE  
\*\*\*\*\* HIT MOON  
\*\*\*\*\* US SUCCESSFULLY ORBITED AND RECOVERED A MANNED SPACE VEHICLE